CITY OF ALBUQUERQUE, NEW MEXICO

SOUTH ARROYO DE DOMINGO BACA

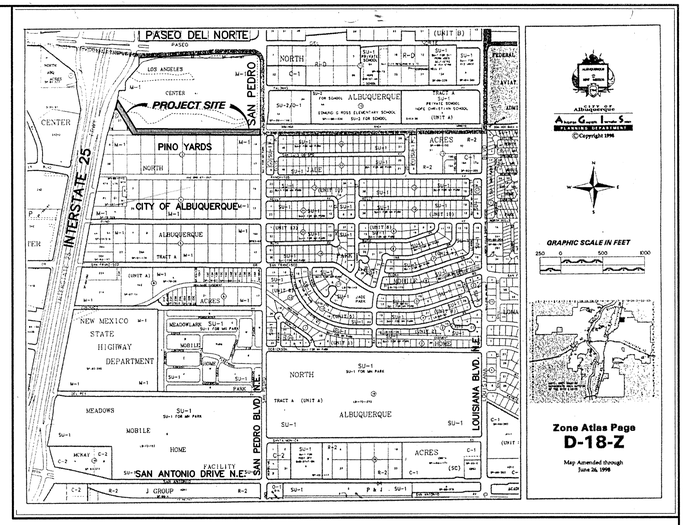
CHANNEL IMPROVEMENTS

(I–25 TO SAN PEDRO BLVD. N.E.)

SCANNED BY
MESA REPRO

INDEX TO DRAWINGS

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3	GRADING PLAN	10	NMSH&TD CBC DETAILS
4	PLAN & PROFILE – STA. 10+00 TO STA. 20+00	11	FENCE AND INLET GRATE DETAILS
5	PLAN & PROFILE – STA. 20+00 TO STA. 29+44.16	12–14	CROSS–SECTIONS
6	TYPICAL CHANNEL DETAILS	15	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
		16	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)
		16A-16F	TEMPORARY CHANNEL IMPROVEMENTS (STA. 10+00 TO STA. 18+75)



VICINITY MAP

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THRU UPDATE NO. 6.
2. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN CONFORMANCE WITH OSHA 29CFR 1926.650, SUB–PART F.
3. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER, AND SHALL BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768–2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260–1990) FOR LOCATION OF EXISTING UTILITIES.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
7. THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857–8200) FIVE (5) WORKING DAYS PRIOR TO NEEDING SHUT–OFF OR TURN–ON OF VALVES. ONLY CITY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
8. RESTRAINED JOINTS ARE REQUIRED AT ALL WATER LINE BENDS, TEES, CAPS AND GATE VALVES. RESTRAINED JOINTS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
9. THE PUBLIC WATER LINE MUST BE A MINIMUM OF 18" ABOVE THE SEWER LINE AT ALL CROSSINGS.
10. THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS CAPS AND PLUGS.
11. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
12. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
13. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
14. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
15. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
16. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS IN EXISTING STRIPING LOCATIONS UNLESS OTHERWISE INDICATED BY THIS PLAN SET.
17. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR, OR REMOVAL AND REPLACEMENT, OF ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, SIDEWALK, WHEELCHAIR RAMP OR ANY OTHER EXISTING IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS.
19. THE CONTRACTOR SHALL GRADE ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES AND NOT SHOWN ON THESE PLANS TO RECEIVE OTHER SURFACE IMPROVEMENTS AS DIRECTED BY THE PROJECT ENGINEER, AND SHALL MULCH AND SEED ALL SUCH AREAS IN ACCORDANCE WITH SECTION 1012, "NATIVE GRASS SEEDING" OF THE STANDARD SPECIFICATIONS.

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Estes Chang
DATE 9/5/01

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO 4743 PAT GUTIERREZ
12-12-00

RECORD DRAWING
DATE: 12-12-00

UTILITY COMPANY CONTACTS

CITY OF ALBUQUERQUE
(Water & Sanitary Sewer)
Greg Olson
PWD/Utility Development
P.O. Box 1293
Albuquerque, New Mexico 87103
(505) 768–2718

PNM ELECTRIC
Jim Vann
4201 Edith Blvd. NE
Albuquerque, New Mexico 87107
(505) 848–3426

PNM GAS
Debbie O'Callaghan
4625 Edith Blvd., NE
Albuquerque, New Mexico 87107
(505) 761–7705

US WEST COMMUNICATIONS
Norma Carrillo
201 Third Street
P.O. Box 1355, Sta. 952
Albuquerque, New Mexico 87103
(505) 245–8706

AT&T
Ishmael Pantoja
111 Third ST., NW
Albuquerque, New Mexico 87103
(505) 842–2806

JONES INTERCABLE
Karen Shore
4611 Montbel Pl., NE
P.O. Box 27128
Albuquerque, NM 87125–7138
(505) 761–6220

NOTE

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

NOTE

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEER'S STAMP & SIGNATURE

REGISTERED ENGINEER No. 5258 NEW MEXICO HANS H. COUCHERON-AMOIT
A-6-99

APPROVALS	ENGINEER	DATE
DRC CHAIR	Gilbert Gallegos	4/7/99
TRANSPORTATION	[illegible]	4-7-99
WATER/WASTEWATER	[illegible]	4/7/99
HYDROLOGY	Steve Boberg	4/7/99
PARKS		
CONSTR. MGMT.		
CONSTR. COORD.	[illegible]	4-7-99

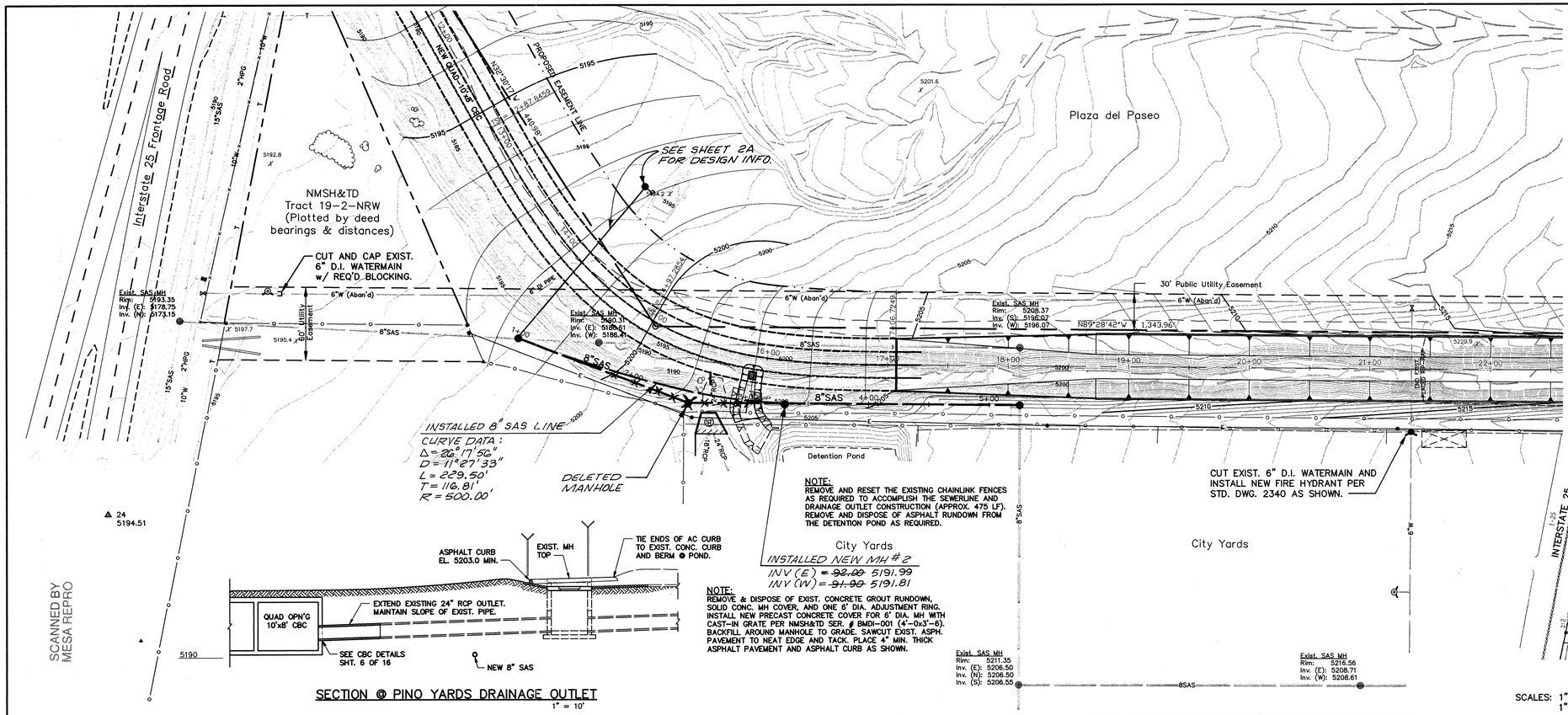
****
APPROVED FOR CONSTRUCTION
12/12/00
3/14/00
CITY ENGINEER
DATE

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 896–8021 FAX (505) 896–8501
E–Mail: eai_engr@swcp.com

CITY PROJECT NO. 6050.91

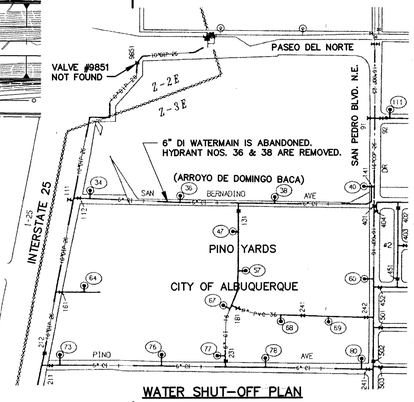
SHEET 1 OF 16

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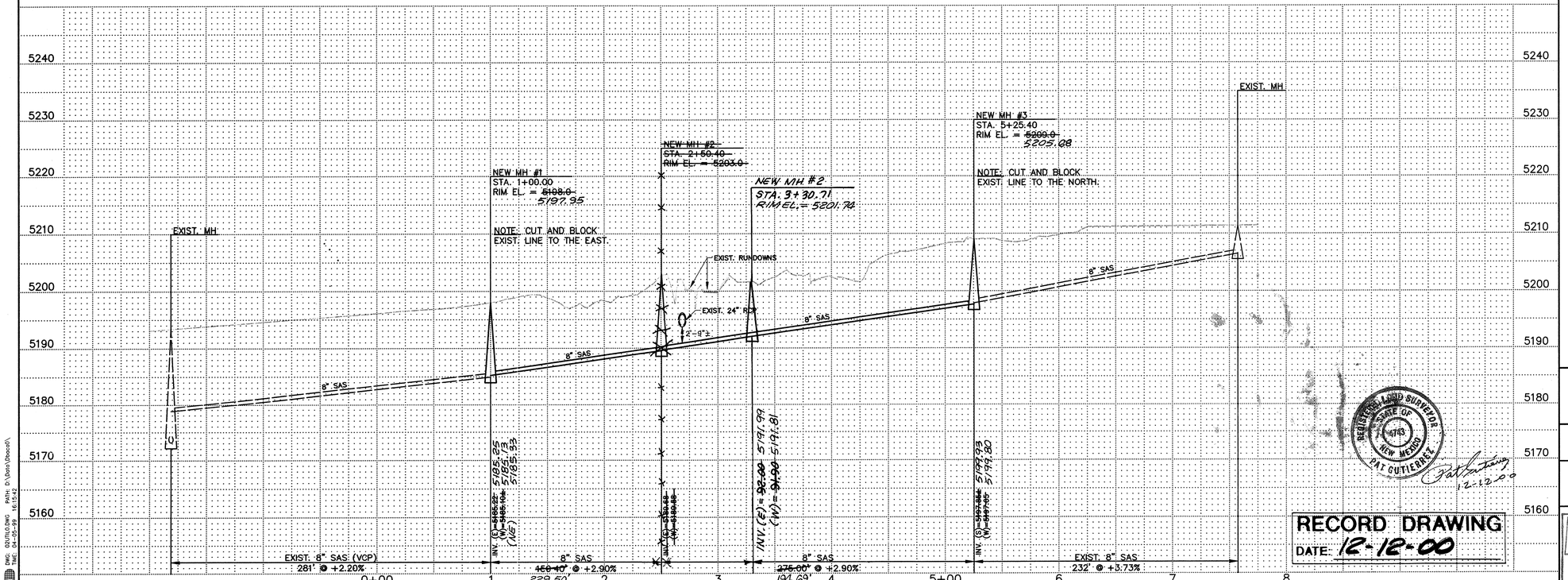
SECTION @ PINO YARDS DRAINAGE OUTLET
1" = 10'

NOTE:
THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WATER MAINS, SANITARY SEWER LINES, AND APPURTENANCES THAT ARE IN THE WAY OF THE NEW CONSTRUCTION. LINES THAT ARE ABANDONED IN PLACE SHALL BE SOLIDLY PLUGGED WITH AT LEAST 1 FT. OF FRESH CONCRETE AT THE ENDS THAT WERE EXPOSED BY THE CONSTRUCTION ACTIVITIES.



WATER SHUT-OFF PLAN

1. CLOSE VALVE NOS. 123 AND 181 IN ORDER TO INSTALL NEW FIRE HYDRANT @ FENCE SOUTH OF VALVE NO. 131. OPEN THESE VALVES ON COMPLETION OF THIS WORK.
2. OPEN VALVE NO. 112 AFTER CUTTING AND CAPPING THE EXISTING 6" DI WATERMAIN @ HYDRANT NO. 34.



SCALES: 1" = 50' HORZ.
1" = 10' VERT.

RECORD DRAWING
DATE: 12-12-00

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
9673
PAT GUTIERREZ
12-12-00

AS BUILT INFORMATION

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
N= 402,255.61 E= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
N= 402,438.55 E= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

CONTRACTOR Moore & Couser DATE 12/00
STAKED BY BH DATE 12/00
INSPECTOR'S ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
AS-BUILTS CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

ENGINEER'S SEAL
NEW MEXICO 5258 REGISTERED PROFESSIONAL ENGINEER
Liz Toyne Le Duc
66-27

NO.	REVISIONS / REMARKS	DATE	BY
	DESIGN	4-6-99	HC-A
	DESIGNED BY HC-A	DATE 4-6-99	
	DRAWN BY HC-A	DATE 4-6-99	
	CHECKED BY RPB	DATE 4-6-99	

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eal_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

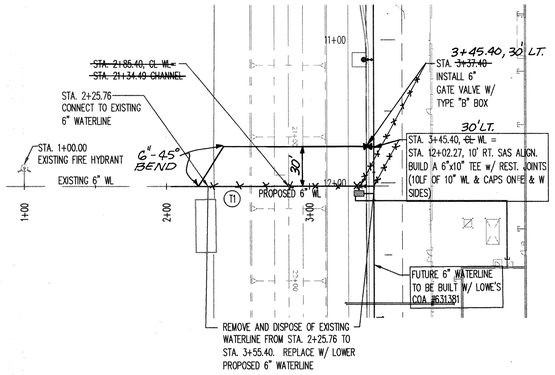
SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
PINO YARDS UTILITIES MODIFICATIONS

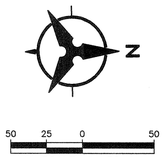
DESIGN REVIEW COMMITTEE: APPROVED FEB 28, 2000 — DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED — CITY ENGINEER
Mo./DAY/YR. | Mo./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT No. 6050.91 | ZONE MAP NO. D-18 | SHEET 2 OF 16

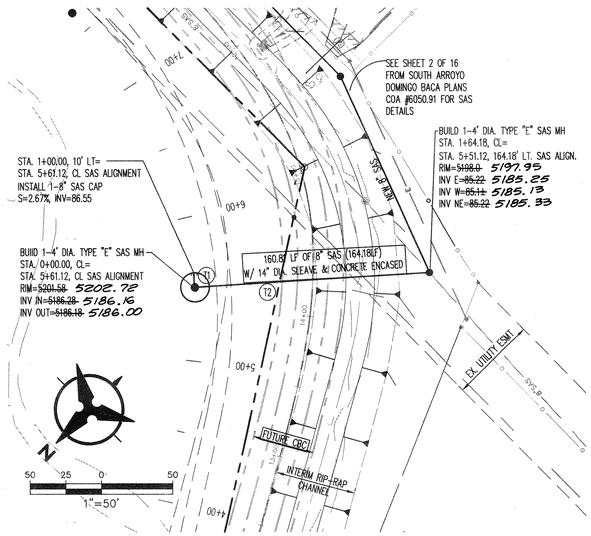
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6" WATERLINE TANGENT TABLE		
NUMBER	BEARING	DISTANCE
T1	S89°31'07"E	142.09'

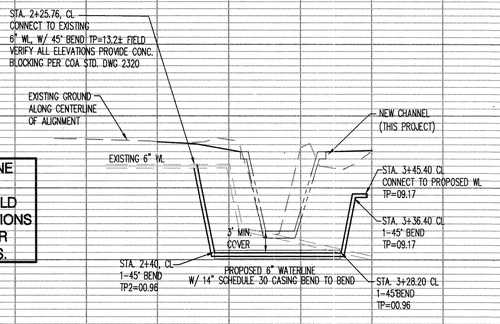




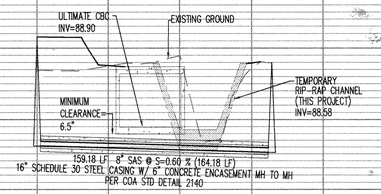
6" WATERLINE TANGENT TABLE		
NUMBER	BEARING	DISTANCE
T1	S49°33'13"E	10.00'
T2	N41°26'53"W	164.18'



6" WL CONNECTION & 8" SAS CONNECTION



EXISTING WATERLINE ELEVATIONS ARE APPROXIMATE. FIELD VERIFY ALL ELEVATIONS & NOTIFY ENGINEER OF DISCREPENCIES.



RECORD DRAWING
DATE: 12-12-00

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 30' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

KEYED NOTES

1. STA. 2+17.58, 47.80' LT. SOUTH WATERLINE ALIGN. INSTALL FIRE HYDRANT – 4' BURY AS PER COA. STD. DWG. 2340 FLANGE ELEV.=13.70
2. STA. 2+25.14, 47.69' LT. SOUTH WATERLINE ALIGN. INSTALL 2" WATER SERVICE W/ METER BOX.
3. STA. 12+07.40, 17.00' RT. 10" BACK FLOW PREVENTER (BY OTHERS).
4. STA. 13+23.23, 15.50' RT. 2" WATER SERVICE W/ METER BOX.
5. STA. 12+07.40 INSTALL 10"X10" TEE & 10 LF OF 10" WL. (SEE PRIVATE PLANS FOR CONTINUATION.)

RESTRAINED JOINT TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS (6")	(8")	(10")
11.25° H BEND	2'	3'	3'
22.50° H BEND	4'	5'	6'
45° H BEND	8'	11'	13'
90° H BEND	20'	26'	31'
GATE VALVE/CAP	55'	72'	86'

NOTE:
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. UNLESS SPECIFIED DIFFERENTLY IN THE PLANS. ALL PIPE JOINTS WITHIN 20 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE.
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

MATERIALS:

SAS LINE: SDR-35 PVC
WATER LINE: C900-PVC

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

AS-BUILT INFORMATION
CONTRACTOR Wilson & Company DATE 12/00
STAKED BY BH DATE 12/00
INSPECTOR'S PRESENCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWING CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
AGS Aluminum Cap stamped "3-C18 1985" Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone) Y= 1,521,435.09 X= 402,255.61
Ground-to-Grid Factor = 0.9996608
Δα = -00° 11' 19"
ELEVATION: 5229.79
The station mark is riveted to a 2 1/2" aluminum tube with the cap projecting 0.05' above the ground, located at the southwest corner of San Pedro and Wilshire.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
BRUCE J. STIDWORTHY NEW MEXICO 14827 REGISTERED PROFESSIONAL ENGINEER
4/10/00

No.	Date	REMARKS
		REVISIONS
		DESIGN
		Designed By: BJS / CMG DATE: 03/2000
		Drawn By: RWB / DTH DATE: 03/2000
		Checked By: BJS / CMG DATE: 03/2000

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

LOWE'S SITE PUBLIC IMPROVEMENTS
SOUTH ARROYO DE DOMINGO BACA
PINO YARDS UTILITIES MODIFICATIONS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

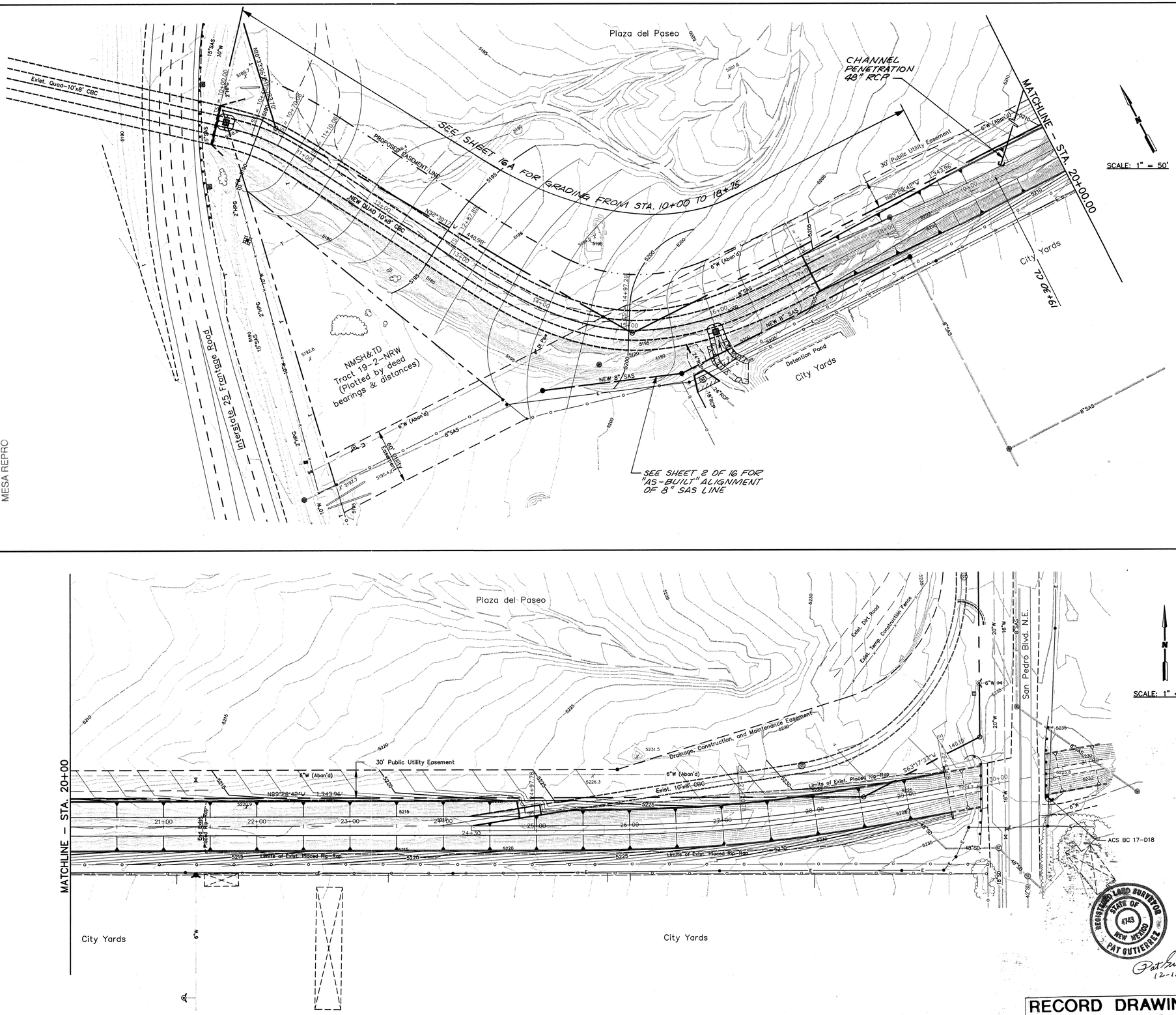
City Project No.	Zone Map No.	Sheet	Of
6050.91	D-18-Z	2A	16F

BHI JOB NO. 00 179 A2 11

Copyright Bohannan Huston 2000
Date: MARCH 31, 2000

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SCANNED BY
MESA REPRO



SCANNED BY
MESA REPRO

DWG: 03GRADCO.DWG PATH: D:\Data\Dbcad0\
TIME: 04-06-99 09:53:03

AS BUILT INFORMATION		
CONTRACTOR	Moore & Lowart	DATE 12/00
STAKED BY	BH	DATE 12/00
INSPECTOR'S ACCEPTANCE BY	BH	DATE 12/00
FIELD VERIFICATION BY	BH	DATE 12/00
AS-BUILTS CORRECTED BY	BH	DATE 12/00
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO – 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK – 12/98	

ENGINEER'S SEAL
REGISTERED ENGINEER STATE OF NEW MEXICO 9258 JOHN R. WOOD
4-6-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 4-6-99
		DESIGNED BY HC-A	DATE 4-6-99
		DRAWN BY HC-A	DATE 4-6-99
		CHECKED BY RPB	

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eal_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
GRADING PLAN

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO 9743 PAT GUTIERREZ
Pat Gutierrez 12-12-00

RECORD DRAWING
DATE: 12-12-00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED Feb 28, 2000 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER		* 2/3/00	

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	3	16

* UPDATE BY BH TO PROVIDE FOR TEMPORARY IMPROVEMENTS ONLY FOR STA. 10+00 TO 18+75 (CBC NOT IN THIS CONTRACT)

STA. 10+10, 5.33' LT. INSTALL 5'x5' MEDIAN DROP INLET w/ 18' SQ. MIN. 3" ASPHALT SURROUND. SEE DETAILS SHT. 6 OF 14. SHAPE FRONTAGE ROAD BORROW DITCH TO DRAIN TO INLET.

REMOVE EXISTING WINGWALLS w/ FOOTINGS. CONSTRUCT TYPE 1 CBC EXTENSION JOINT PER NMSH&TD SER. BCE-001. SEE DETAILS SHT. 10 OF 16.

EXIST. GUARDRAIL TO REMAIN

PLAZA DEL PASEO RUNOFF: 1/2 x 32 AC. X 4.5 CFS/AC. = 72 CFS±
BORROW DITCH RUNOFF: 28 CFS±
FLOW TO INLET: Q_{100} = 100 CFS±

Plaza del Paseo

SP-1 C-1 SP-2 SP-3 SP-4

S 29°28'42" E - 177.78'

PROPOSED EASEMENT LINE

S 89°28'42" E - 723.28'±

JOINT USE LOADING ZONE & CHANNEL MAINTENANCE ACCESS EASEMENT & 30' Public Utility Easement

CBC NOT IN CONTRACT - SEE SHEETS 16A - 16F FOR CONSTRUCTION DOWNSTREAM OF STA. 18+75

MATCHLINE - STA. 20+00.00

Exist. Quad-10'x8' CBC

NEW QUAD 10'x8' CBC

N32°30'17"W 440.98'

6"W (Aban'd)

N89°28'42"W 1,343.96'

Drainage Right-of-Way City of Albuquerque

Interstate 25 Frontage Road

NMSH&TD Tract 19-2-NRW (Plotted by deed bearings & distances)

80' Utility Easement

NEW 8" SAS

Detention Pond

Build SAS w/ this Project

STA. 18+76 - INSTALL CHANNEL STEPS PER STD. DWG'S 2229 AND 2261. 10 STEPS EACH SIDE.

City Yards

NOTE:
THE CONTRACTOR SHALL KEEP HIS MEN AND EQUIPMENT BEHIND THE GUARDRAIL AT ALL TIMES IF FEASIBLE. IF IT BECOMES NECESSARY TO WORK IN FRONT OF THE GUARDRAIL, THE WARNING SIGNS SHOWN BELOW SHALL BE POSTED AS DIRECTED BY THE PROJECT ENGINEER.



SEE SHEET 2 OF 16 FOR "AS-BUILT" ALIGNMENT OF 8" SAS LINE

NOTE:
REMOVE & DISPOSE OF THE EXISTING 8" SAS AND 6" DI WATERMAIN AS REQ'D FOR THE NEW CONSTRUCTION.

STA. 15+90, 16.00' RT. INSTALL 5'x5' MEDIAN DROP INLET w/ 3" ASPHALT SUMP SURROUND AND RUNDOWN FROM THE DETENTION POND SPILLWAY AS INDICATED. SEE DETAILS SHT. 6 OF 16.

"PINO YARDS DRAINAGE IMPROVEMENTS"
CITY PROJ. No. 5588.08
FLOW IN 18" & 24" RCP: 19.9 CFS
PARKING LOT RUNOFF: 1.5 CFS
Q_{100} = 21.4 CFS

"PINO YARDS INTERIM DRAINAGE IMPROVEMENTS"
CITY PROJ. No. 4094.90
DETENTION POND SPILLWAY: Q_{100} = 114 CFS

PROVIDED A WATERBLOCK IS CONSTRUCTED @ THE PARKING LOT DRIVEWAY.

SCALES: 1" = 50' HORZ.
1" = 10' VERT.

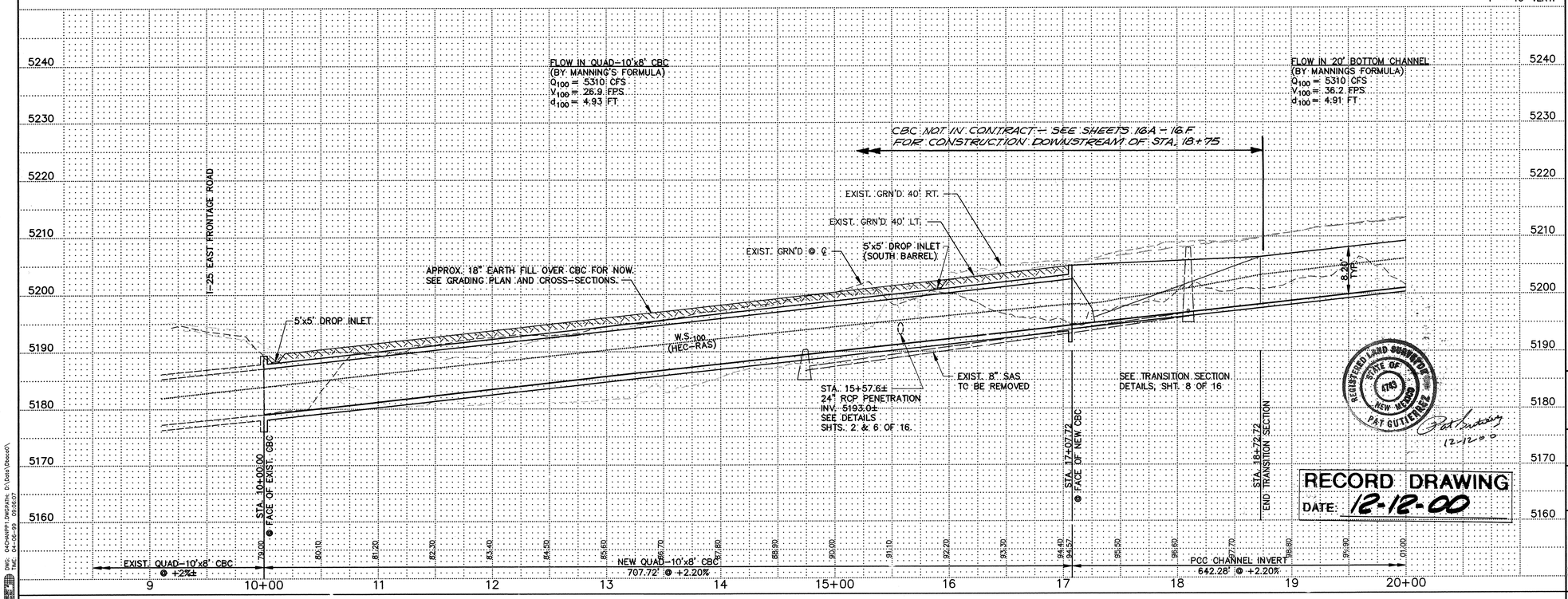
SP-1 (Clothoid)		
TS . . .	North: 1518709.19	East: 400605.73
SPI. . . .	North: 1518691.88	East: 400626.04
SC . . .	North: 1518682.25	East: 400635.28
K : 19.99		P : 0.33
A : 89.44		Tau : 0.10
Xs: 39.96		Ys: 1.33
Long Tan : 26.68		Course: S 49-33-00 E
Short Tan: 13.35		Course: S 43-49-14 E
Length: 40.00	Radius: 200.00	Theta: 5-43-46

C-1		
Begin	North: 1518659.08	East: 400654.39
Radial Point. .	North: 1518543.77	East: 400490.97
End	North: 1518682.25	East: 400635.28
PI	North: 1518671.39	East: 400645.70
Tangent: 15.06	Chord: 30.04	Course: N 39-30-51 W
Arc Length: 30.06	Radius: 200.00	Delta: 8-36-45

SP-2 (Clothoid)		
TS . . .	North: 1518624.95	East: 400675.21
SPI. . . .	North: 1518648.18	East: 400662.08
SC . . .	North: 1518659.08	East: 400654.39
K : 19.99		P : 0.33
A : 89.44		Tau : 0.10
Xs: 39.96		Ys: 1.33
Long Tan : 26.68		Course: N 29-28-42 W
Short Tan: 13.35		Course: N 35-12-28 W
Length: 40.00	Radius: 200.00	Theta: 5-43-46

SP-3 (Clothoid)		
TS . . .	North: 1518470.18	East: 400762.70
SPI. . . .	North: 1518346.84	East: 400832.42
SC . . .	North: 1518310.43	East: 400894.17
K : 103.77		P : 9.05
A : 204.67		Tau : 0.52
Xs: 203.77		Ys: 35.84
Long Tan : 141.69		Course: S 29-28-42 E
Short Tan: 71.69		Course: S 59-28-42 E
Length: 209.44	Radius: 200.00	Theta: 30-00-00

SP-4 (Clothoid)		
TS . . .	North: 1518272.74	East: 401097.61
SPI. . . .	North: 1518259.18	East: 400955.93
SC . . .	North: 1518310.43	East: 400894.17
K : 103.77		P : 9.05
A : 204.67		Tau : 0.52
Xs: 203.77		Ys: 35.84
Long Tan : 141.69		Course: N 89-28-42 W
Short Tan: 71.69		Course: N 59-28-42 W
Length: 209.44	Radius: 200.00	Theta: 30-00-00



REGISTERED LAND SURVEYOR STATE OF NEW MEXICO 17173 PAT GUTIERREZ 12-12-00

RECORD DRAWING
DATE: 12-12-00

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"	
X= 402,255.61	Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)	
ACS BC 17-D18	
X= 402,438.55	Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)	

AS BUILT INFORMATION

CONTRACTOR STAKED BY	Moore & Cowart	DATE 12/00
INSPECTOR'S FIELD ADVANCE BY	BH	DATE 12/00
VERIFICATION BY	BH	DATE 12/00
DRAWINGS CORRECTED BY	BH	DATE 12/00

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER 5258 HANS H. COUCHMAN NEW MEXICO
4-6-99

NO.	DATE	REMARKS
		REVISIONS
		DESIGN

DESIGNED BY HC-A DATE 4-6-99
DRAWN BY HC-A DATE 4-6-99
CHECKED BY RPB DATE 4-6-99

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
PLAN & PROFILE - STA. 10+00 TO STA. 20+00

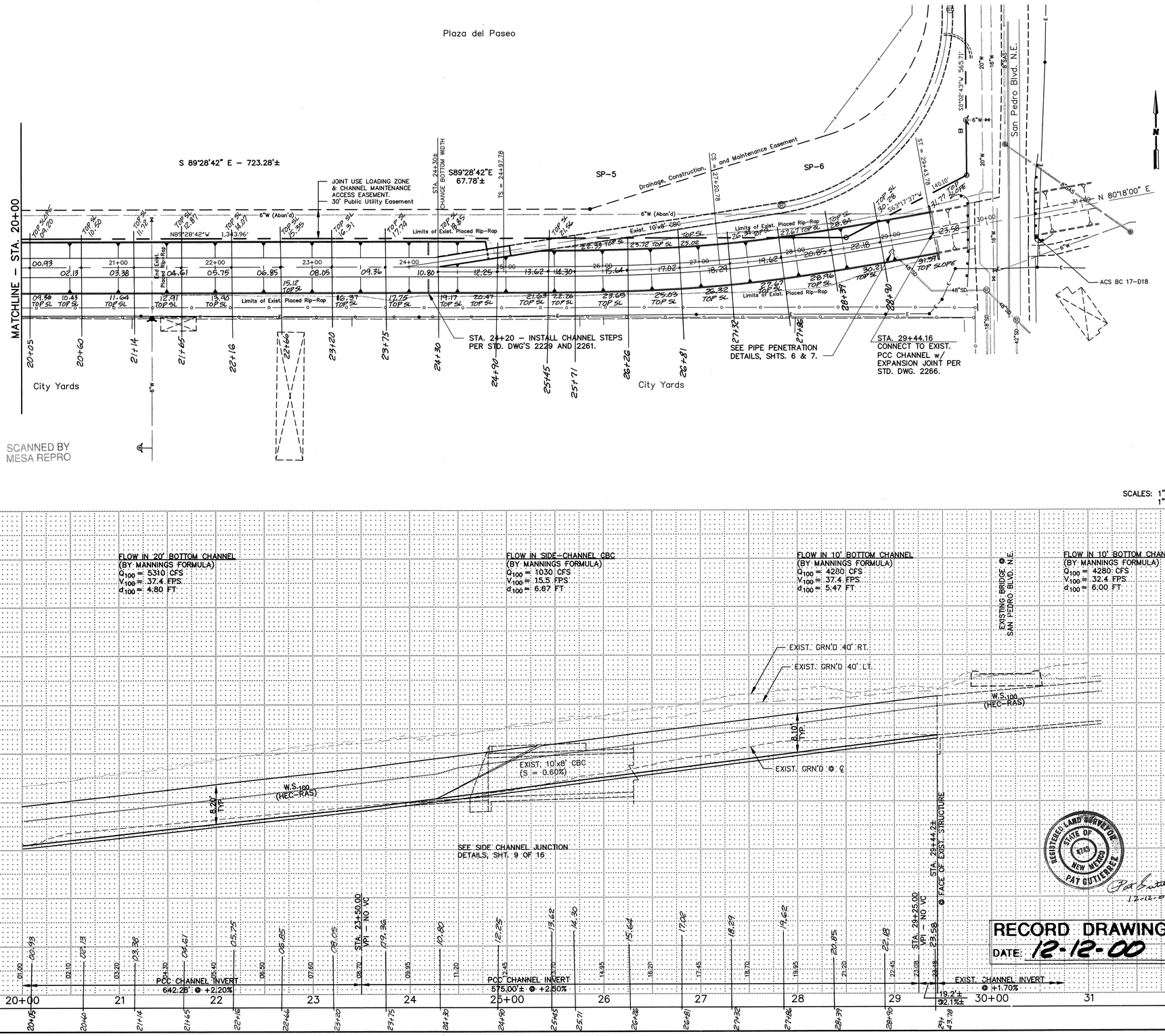
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER	* 2/3/00	
		LAST DESIGN UPDATE	

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	4	16

* UPDATE BY BH TO PROVIDE FOR TEMPORARY IMPROVEMENTS ONLY FOR STA. 10+00 TO 18+75 (CBC NOT IN THIS CONTRACT)

SCANNED BY MESA REPRO

DWG: 04CHANP1 DIGITAL: D:\Data\Docs0\ DATE: 04-06-99 DRAWN BY: HC-A



SCALES: 1" = 50' HORZ.
1" = 10' VERT.

SP-5 (Clothoid)			
TS . . .	North: 1518260.53	East:	401888.58
SPI. . . .	North: 1518259.18	East:	402037.31
SC . . .	North: 1518265.13	East:	402111.46
K :	111.47	P :	1.66
A :	527.97	Tau :	0.09
Xs:	222.82	Ys:	6.63
Long Tan :	148.73	Course:	S 89-28-42 E
Short Tan:	74.39	Course:	N 85-24-39 E
Length: 223.00	Radius: 1250.00		Theta: 5-06-39

SP-6 (Clothoid)			
TS . . .	North: 1518296.14	East:	402332.21
SPI. . . .	North: 1518271.08	East:	402185.61
SC . . .	North: 1518265.13	East:	402111.46
K :	111.47	P :	1.66
A :	527.97	Tau :	0.09
Xs:	222.82	Ys:	6.63
Long Tan :	148.73	Course:	S 80-18-00 W
Short Tan:	74.39	Course:	S 85-24-39 W
Length: 223.00	Radius: 1250.00		Theta: 5-06-39

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart DATE 12/00
STAKED BY BH DATE 12/00
INSPECTOR'S CHANGE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWINGS CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
BOHANNAN-HUSTON, INC.
TOPOGRAPHIC MAP OF
PLAZA DEL PASEO – 7/98
ADD'L POINTS AS REQUIRED
BY SURV-TEK – 12/98

ENGINEER'S SEAL
REGISTERED ENGINEER No 5258 HANS R. COUCHMAN NEW MEXICO
6-4-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DESIGNED BY HC-A DATE 4-6-99
			DRAWN BY HC-A DATE 4-6-99
			CHECKED BY RPB DATE 4-6-99

REGISTERED LAND SURVEYOR STATE OF N.M. NEW MEXICO PAT GUTIERREZ 12-12-00

RECORD DRAWING
DATE: 12-12-00

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eal_engr@swcp.com

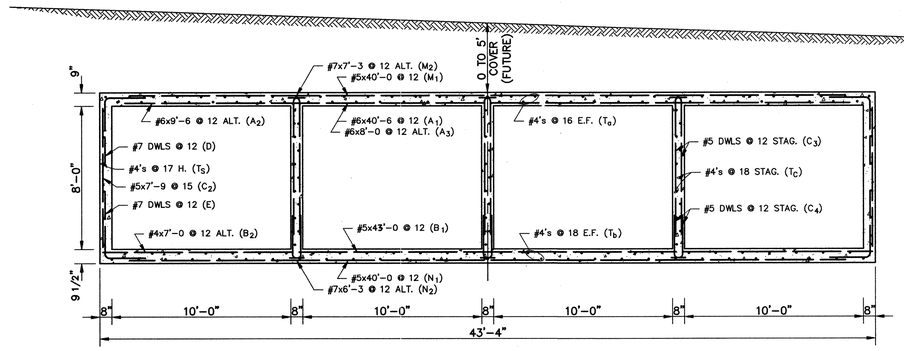
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
CHANNEL IMPROVEMENTS
PLAN & PROFILE – STA. 20+00 TO STA. 29+44.16

DESIGN REVIEW COMMITTEE: APPROVED Feb 28, 2000 APR 1999 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED CITY ENGINEER
LAST DESIGN UPDATE: Mo./DAY/YR. Mo./DAY/YR.

CITY PROJECT No. 6050.91 | ZONE MAP NO. D-18 | SHEET 5 OF 16

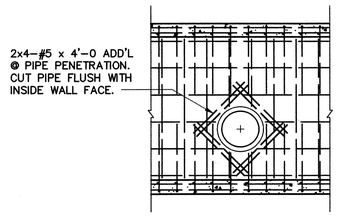
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Rel: C-CAD 6.00 for W95



TYPICAL SECTION THRU QUAD–10'x8' CBC

1/4" = 1'-0"

NOTES:
1. THE CONCRETE BOX CULVERT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NMSH&TD SERIAL CB-34, SHEETS 1 & 2 OF 5 (DESIGN No. 1) EXCEPT AS OTHERWISE INDICATED HEREIN.
2. CAREFULLY MAINTAIN SPACING OF TRANSVERSE BARS @ THE CBC CENTERLINE AND PLACE BARS RADIALLY AROUND CURVES, SUCH THAT THE REINFORCING STEEL WILL BE MAINTAINED WITHIN ±10% OF THE NOMINAL DESIGN.

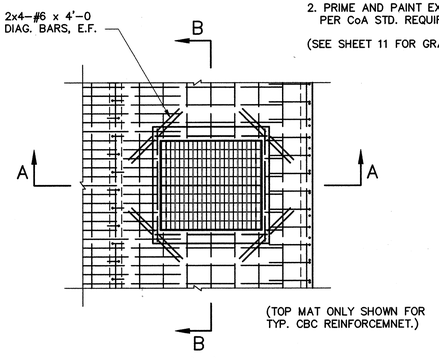


CBC WALL ELEVATION @ 24" RCP PIPE PENETRATION

(SEE SHT. 2 OF 16) 1/4" = 1'-0"

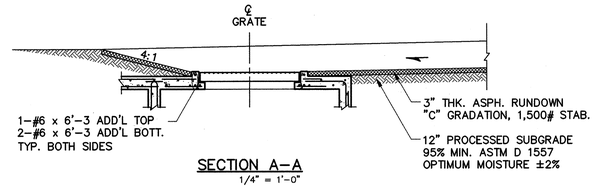
NOTES:
1. INSTALL GRATES AND SEAT ANGLES PER NMSH&TD SER. BMDI-006.
2. PRIME AND PAINT EXPOSED STEEL PER CoA STD. REQUIREMENTS.

(SEE SHEET 11 FOR GRATE DETAILS.)



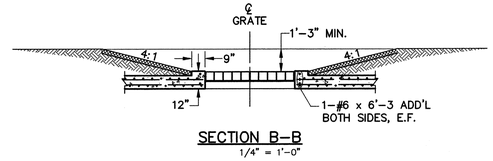
PLAN SECTION @ 5'x5' MEDIAN DROP INLET IN CBC ROOF SLAB

1/4" = 1'-0"



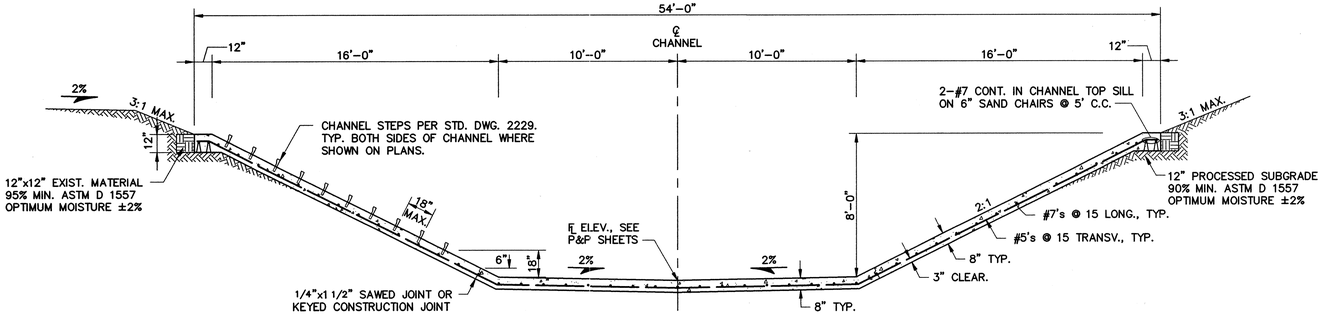
SECTION A–A

1/4" = 1'-0"



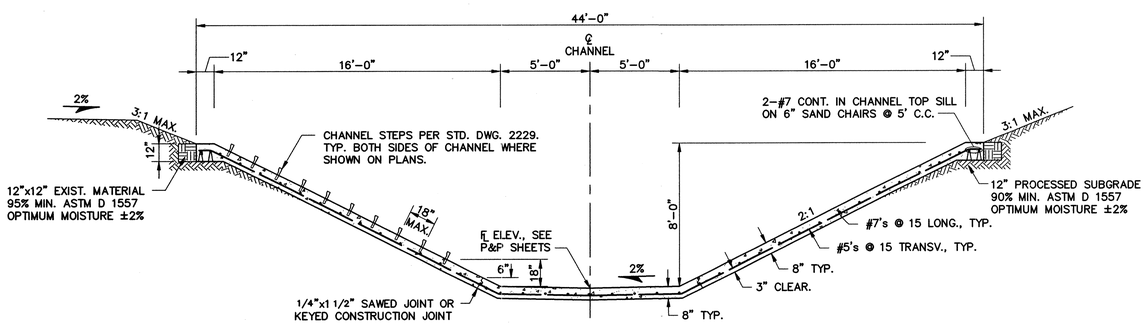
SECTION B–B

1/4" = 1'-0"



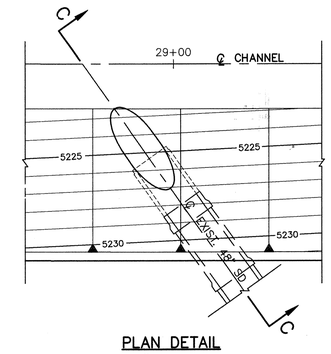
TYPICAL SECTION @ 20' BOTTOM CHANNEL

1/4" = 1'-0"



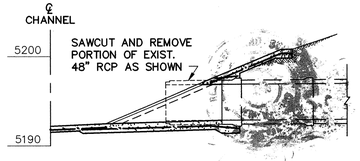
TYPICAL SECTION @ 10' BOTTOM CHANNEL

1/4" = 1'-0"



PLAN DETAIL @ EXIST. 48" RCP STORMDRAIN

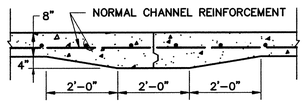
1/8" = 1'-0"



SECTION C–C

1/8" = 1'-0"

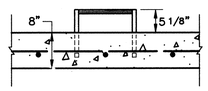
NOTE:
SEE "PIPE PENETRATION DETAILS," SHT 7, FOR TYPICAL REINFORCING DETAILS, NOTES, AND DIMENSIONS.



CONSTRUCTION JOINT DETAIL

1/2" = 1'-0"

NOTES:
1. PORTLAND CEMENT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 101 FOR USE IN DRAINAGE STRUCTURES. (4000#, 6-BAG MIX W/ CLASS F FLYASH.)
2. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A 615, GRADE 40 or 60.
3. REINFORCING DETAILS NOT SHOWN SHALL CONFORM TO C.R.S.I. RECOMMENDED PRACTICE.
4. #6 BARS AND SMALLER SHALL BE DETAILED FOR 30 BAR DIAMETERS MINIMUM LAPS. 20 BAR DIAMETERS WILL BE THE MINIMUM ACCEPTABLE LAP @ SPLICES IN THE FIELD.
5. EXPOSED CONCRETE SURFACES SHALL BE GIVEN A CLASS I SURFACE FINISH.



SECTION @ SIDESLOPE LADDER

3/4" = 1'-0"

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart DATE 12/00
STAKED BY BH DATE 12/00
INSPECTOR'S SURVEILLANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWINGS CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
REGISTERED ENGINEER STATE OF NEW MEXICO No. 5256 WANG H. COLUMBUS

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY HC-A	DATE 4-6-99
		DRAWN BY HC-A	DATE 4-6-99
		CHECKED BY RPB	DATE 4-6-99

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO No. 9583 PAT GUTIERREZ
12-12-00

RECORD DRAWING
DATE: 12-12-00

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

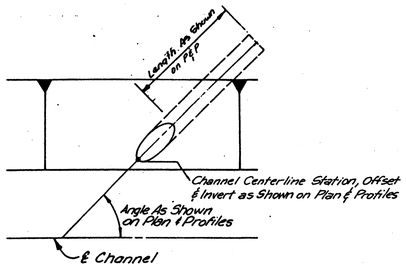
SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
TYPICAL CHANNEL DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT No. 6050.91 | ZONE MAP NO. D-18 | SHEET 6 OF 16

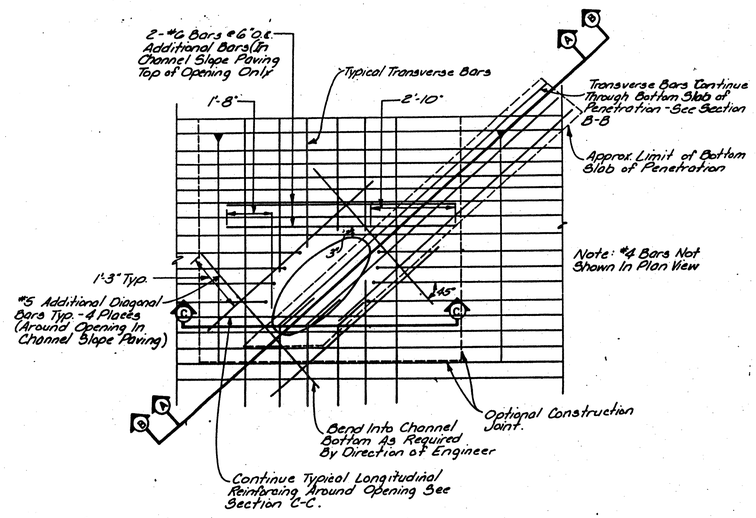
SCANNED BY MESA REPRO

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PLAN VIEW

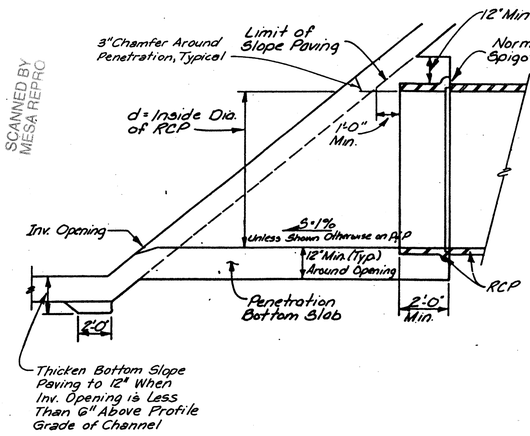
PIPE PENETRATION



PLAN VIEW

TYPICAL PIPE PENETRATION

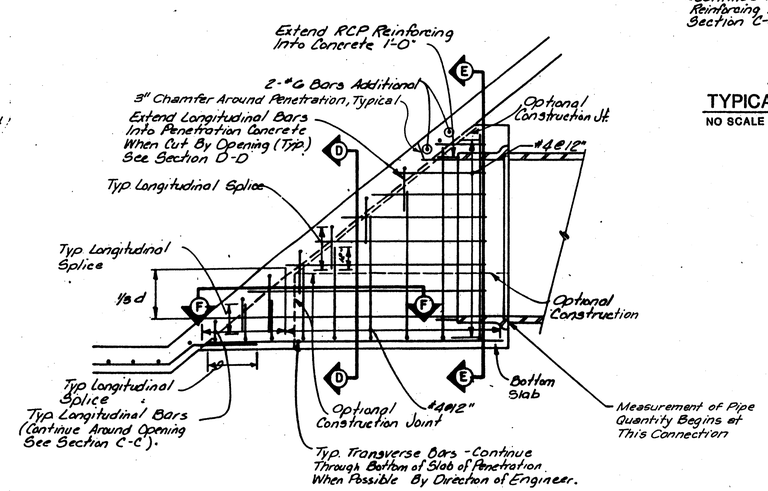
NO SCALE



SECTION A-A

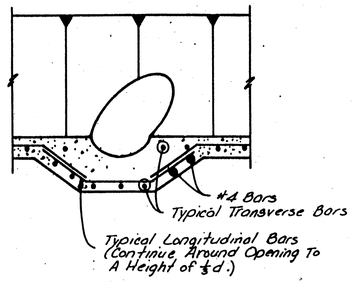
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See Section B-B for Reinforcing



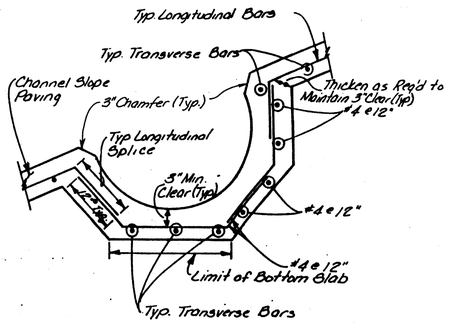
SECTION B-B

NO SCALE



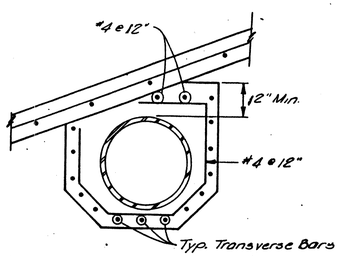
SECTION C-C

NO SCALE



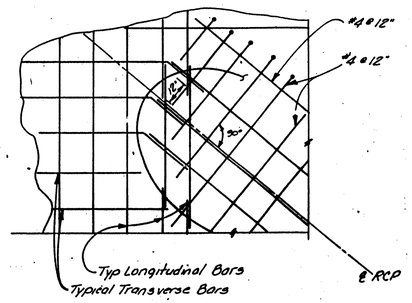
SECTION D-D

NO SCALE



SECTION E-E

NO SCALE



SECTION F-F

NO SCALE

GENERAL NOTES:

1. THESE PIPE PENETRATION DETAILS ARE NOT TO SCALE. ACTUAL DIMENSIONS, LENGTHS, AND SLOPES MAY VARY SIGNIFICANTLY DEPENDING ON THE ANGLE OF THE PIPE PENETRATION, PIPE SLOPE, CHANNEL SLOPE, AND PIPE DIAMETER.
2. PIPE PENETRATIONS WILL BE MEASURED AND PAID FOR ON A PER EACH BASIS FOR THE SPECIFIED PIPE DIAMETER. SEPARATE MEASUREMENT AND PAYMENT SHALL BE MADE FOR PIPE BEGINNING AT THE POINT INDICATED IN DETAIL SECTION B–B.
3. 3" CHAMFER REQUIRED ON ALL EXPOSED EDGES.

AS BUILT INFORMATION
CONTRACTOR Moore & Lowery
WORK STAKED BY BH DATE 12/00
ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWINGS CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED BY SURV-TEK - 12/98	

BENCH MARKS
ACS ALUM. CAP "9-C18 1985" X= 402,255.61 Y= 1,521,435.09 (NAD 1927) ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18 X= 402,438.55 Y= 1,518,290.84 (NAD 1927) ELEV. 5236.58 (SLD 1929)

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO 5256 HANG H. DUONG
12-12-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 3-3-99
		DESIGNED BY HC-A	DATE 3-3-99
		DRAWN BY HC-A	DATE 3-3-99
		CHECKED BY RPB	DATE 3-3-99

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO 4749 PAT BUTTERY
12-12-00

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
PIPE PENETRATION DETAILS

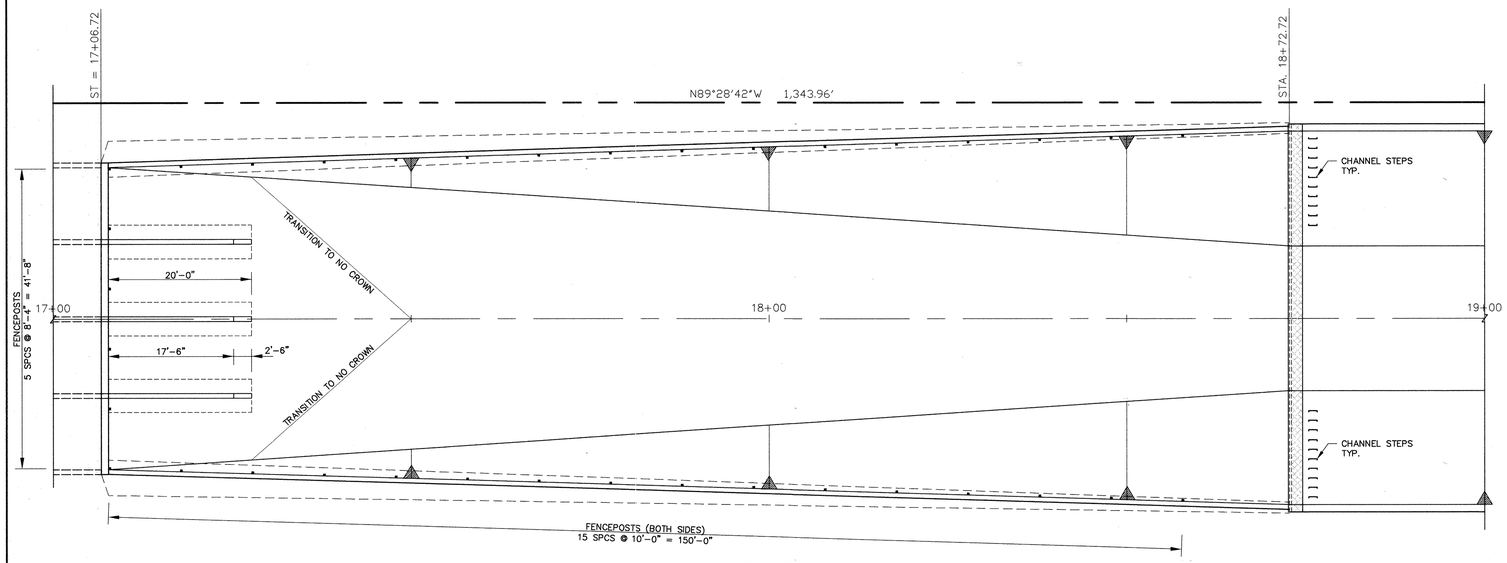
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 28 2000 APR 1 2000 DESIGN REVIEW COMMITTEE	APPROVED APR 1 2000 CITY ENGINEER			

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	7	16

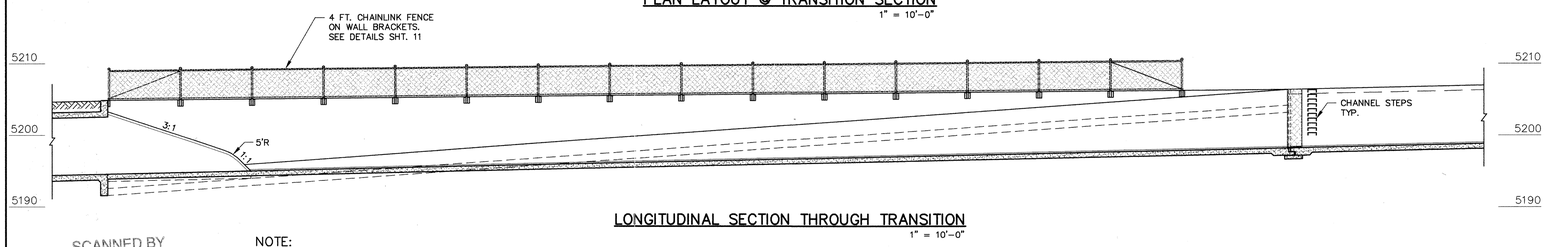
RECORD DRAWING
DATE: 12-12-00

SCANNED BY MESA REPRO

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TIME: 02-24-99 09:23:18



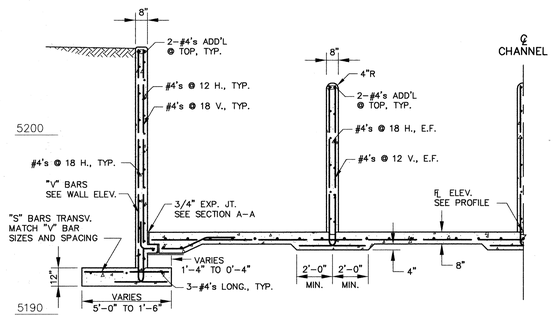
PLAN LAYOUT @ TRANSITION SECTION
1" = 10'-0"



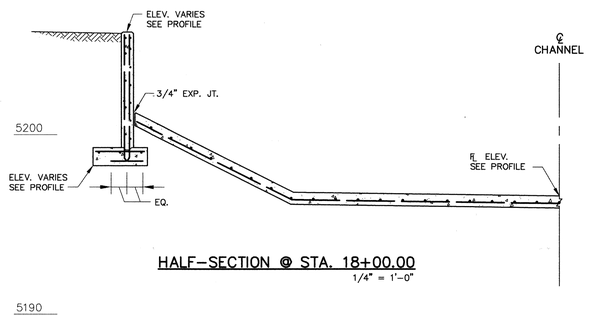
LONGITUDINAL SECTION THROUGH TRANSITION
1" = 10'-0"

SCANNED BY MESA REPRO

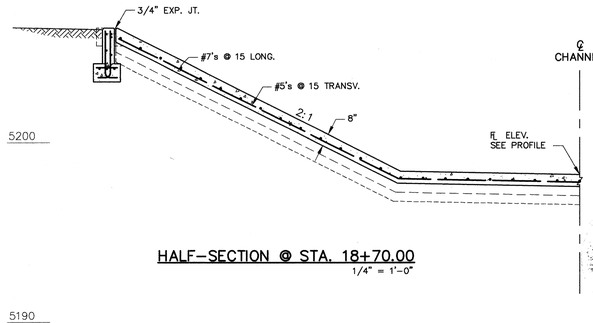
NOTE:
EXTEND OR DOWEL HORIZONTAL RETAINING WALL AND NOSE BARS 18" MIN. INTO CBC WALLS.
EXTEND OR DOWEL LONGITUDINAL CHANNEL SLAB BARS 24" MIN. INTO CBC FLOORSLAB.



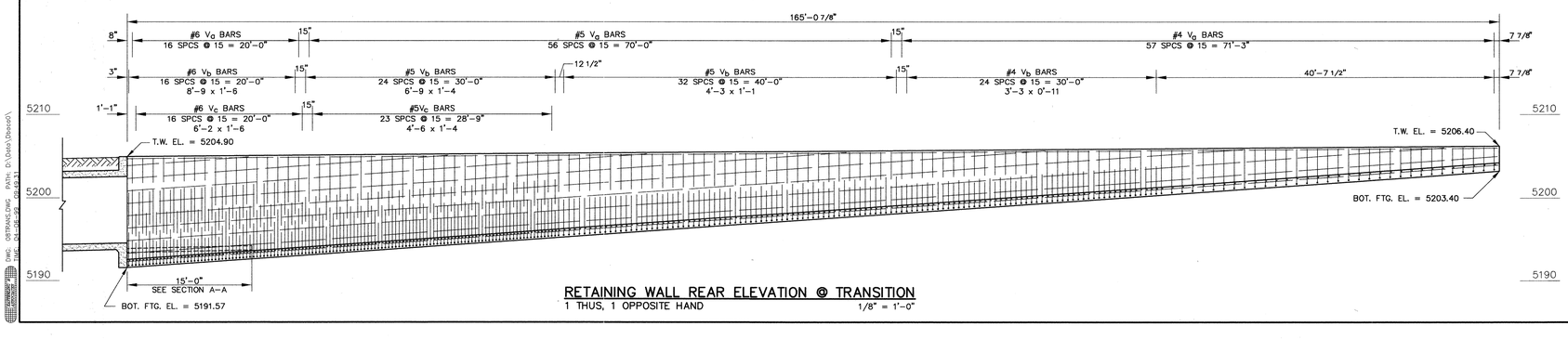
HALF-SECTION @ STA. 17+08.00
1/4" = 1'-0"



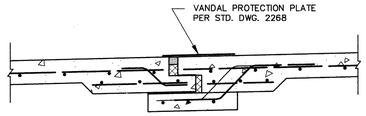
HALF-SECTION @ STA. 18+00.00
1/4" = 1'-0"



HALF-SECTION @ STA. 18+70.00
1/4" = 1'-0"

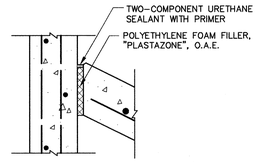


RETAINING WALL REAR ELEVATION @ TRANSITION
1 THUS, 1 OPPOSITE HAND
1/8" = 1'-0"

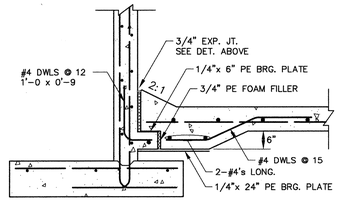


EXPANSION JOINT CONNECTION @ STA. 18+72.72
1/2" = 1'-0"

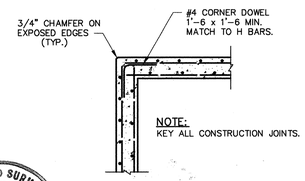
NOTE:
SEE STD. DWG'S 2265 & 2268 FOR GENERAL NOTES AND DIMENSIONS.
BOTTOM FILLER (KB) = 2" WIDE x 6" DEEP.
TOP FILLER (KT) = 3" WIDE x 3 3/4" DEEP.
SEALANT BLOCK-OUT = 3" WIDE x 2 1/2" DEEP.
SEALANT ORDER SIZE = 3 3/4" WIDE x 2 1/2" DEEP.



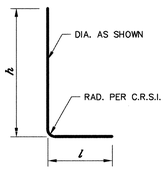
TYP. 3/4" EXPANSION JOINT @ RET. WALLS
(STD. DWG. 2260 SIM.)
1" = 1'-0"



3/4" EXPANSION JOINT @ SECTION A-A
(STD. DWG. 2266 SIM.)
1/2" = 1'-0"



TYPICAL CORNER DETAIL
NO SCALE



V$_b$ BAR
h x l

LAND SURVEYOR STATE OF NEW MEXICO 4743 PAT GUTIERREZ

Pat Gutierrez 12-12-00

RECORD DRAWING
DATE: 12-12-00

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: ed_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA (I-25 TO SAN PEDRO BLVD. N.E.) TRANSITION SECTION DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED Feb 28 2000 APR - 7 1999 DESIGN REVIEW COMMITTEE	APPROVED APR - 7 1999 CITY ENGINEER			

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	8	16

ENGINEER'S SEAL
NEW MEXICO 5203 REGISTERED PROFESSIONAL ENGINEER JAMES A. TOUCHET
4-6-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DESIGNED BY HC-A DATE 4-6-99
			DRAWN BY HC-A DATE 4-6-99
			CHECKED BY RPB DATE 4-6-99

AS BUILT INFORMATION

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

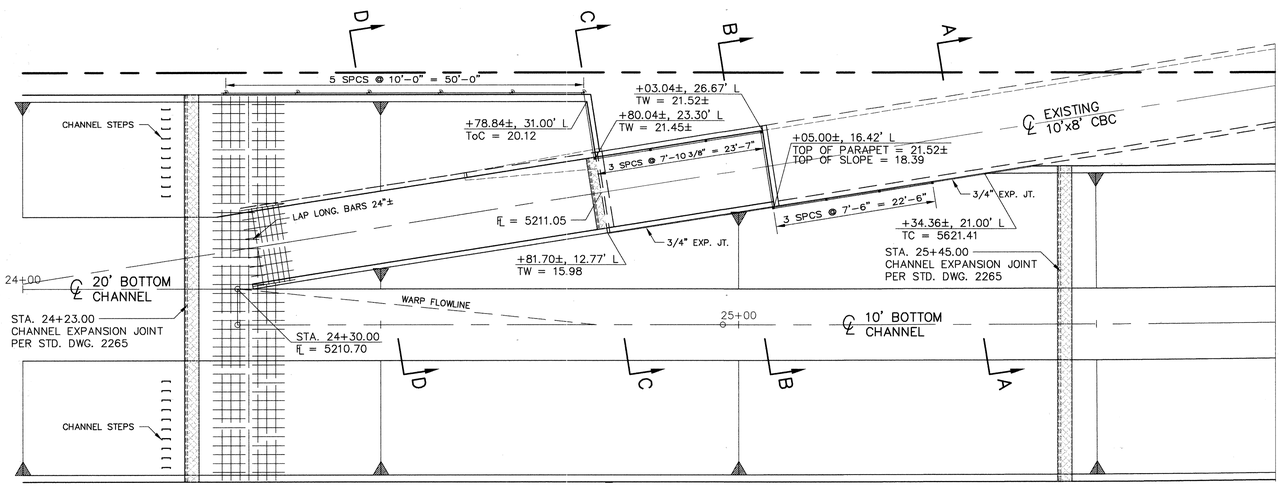
CONTRACTOR Moore & Cowart DATE 12/00
WORK STAKED BY BH DATE 12/00
INSPECTOR'S ASSISTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWING CORRECTED BY BH DATE 12/00

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

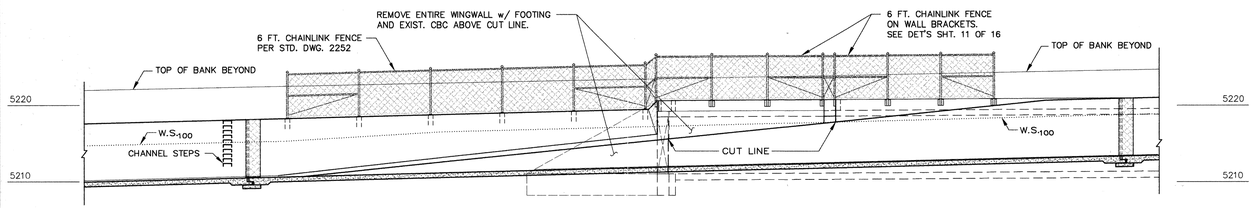
SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

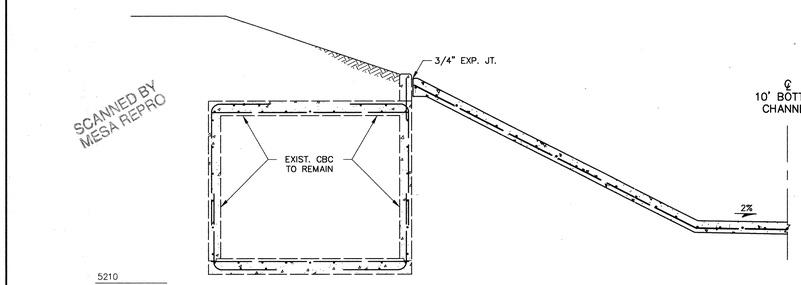
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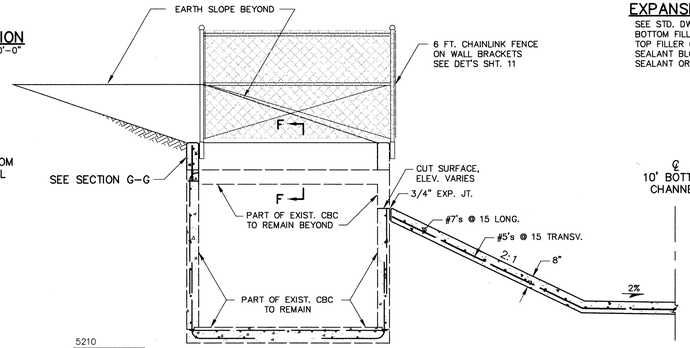
PLAN LAYOUT @ SIDE CHANNEL JUNCTION
1" = 10'-0"



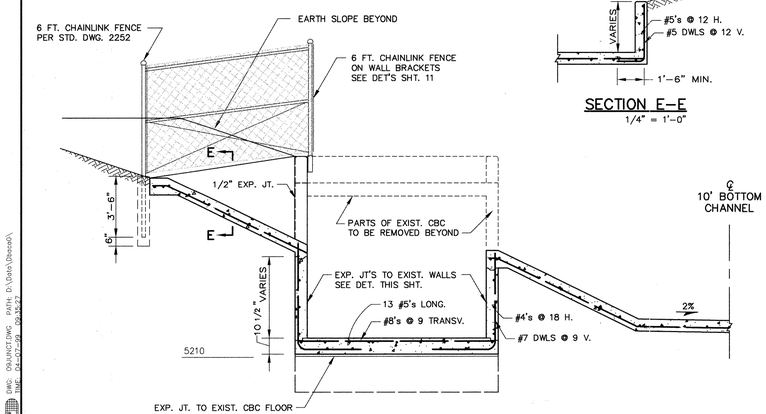
LONGITUDINAL SECTION @ SIDE CHANNEL JUNCTION
1" = 10'-0"



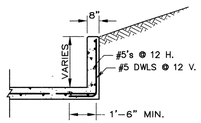
SECTION A–A
1/4" = 1'-0"



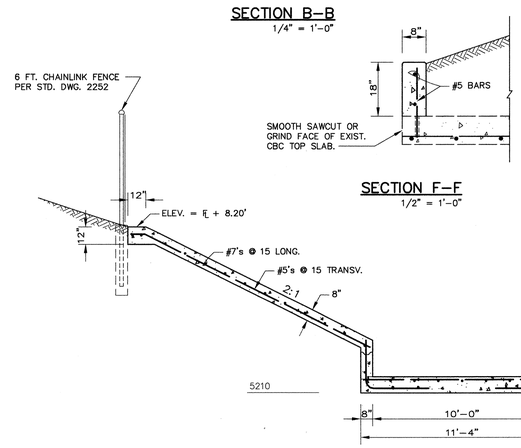
SECTION B–B
1/4" = 1'-0"



SECTION C–C
1/4" = 1'-0"



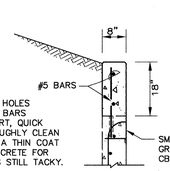
SECTION E–E
1/4" = 1'-0"



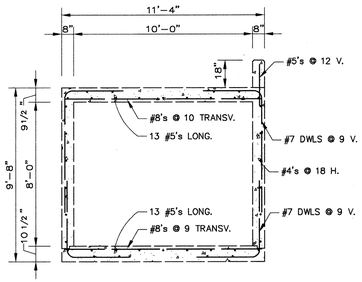
SECTION D–D
1/4" = 1'-0"

SECTION F–F
1/2" = 1'-0"

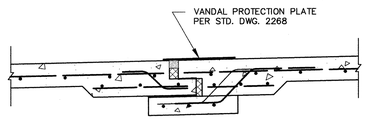
NOTE:
DRILL 1" DIA. x 7" DEEP MIN. HOLES @ 12" C.C. MAX. AND SET #5 BARS SOLIDLY IN PLACE WITH 2–PART, QUICK SETTING EPOXY, O.A.E. THOROUGHLY CLEAN MATING SURFACE AND PLACE A THIN COAT OF EPOXY GROUT. PLACE CONCRETE FOR PARAPET WHILE THE EPOXY IS STILL TACKY.



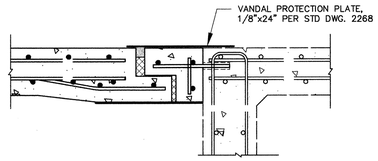
SECTION G–G
1/2" = 1'-0"



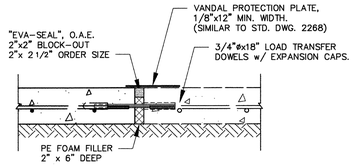
TYP. SECTION THROUGH EXIST. 10'x8' CBC
1/4" = 1'-0"



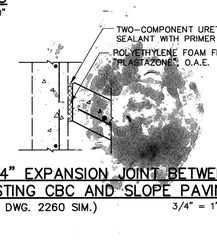
CHANNEL EXPANSION JOINTS @ STA. 24+23 AND STA. 25+45
SEE STD. DWG'S 2265 & 2268 FOR GENERAL NOTES AND DIMENSIONS. 1/2" = 1'-0"
BOTTOM FILLER (KB) = 2" WIDE x 6" DEEP.
TOP FILLER (KT) = 3" WIDE x 3 3/4" DEEP.
SEALANT BLOCK-OUT = 3" WIDE x 2 1/2" DEEP.
SEALANT ORDER SIZE = 3 3/4" WIDE x 2 1/2" DEEP.



EXPANSION JOINT CONN. TO EXIST. 10'x8' CBC @ FLOOR
SEE STD. DWG'S 2266 & 2268 FOR GENERAL NOTES AND DIMENSIONS. 3/4" = 1'-0"
BOTTOM FILLER (KB) = 1" WIDE x 6" DEEP.
TOP FILLER (KT) = 2" WIDE x 4 1/4" DEEP.
SEALANT BLOCK-OUT = 2" WIDE x 2" DEEP.
SEALANT ORDER SIZE = 2 1/2" WIDE x 2" DEEP.



EXPANSION JOINTS @ EXIST. CBC WALLS
CORE DRILL 1 1/2" DIA. HOLES, 6" DEEP @ 12" O.C. INTO EXISTING STRUCTURE WITH CONTINUOUS WATER LUBRICATION AND COOLANT. DO NOT USE IMPACT DRILL. BOND DOWELS INTO PLACE WITH SOLID 2-PART, QUICK SETTING EPOXY. 3/4" = 1'-0"



3/4" EXPANSION JOINT BETWEEN EXISTING CBC AND SLOPE PAVING
(STD. DWG. 2260 SIM.) 3/4" = 1'-0"

SCANNED BY MESA REPRO

DWG: 05JUNCTION.DWG PATH: D:\Data\Design\
DATE: 05-02-99 09:05:23

AS BUILT INFORMATION

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

CONTRACTOR Moore & Covert DATE 12/00
STAKED BY BH DATE 12/00
INSPECTOR'S ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
CHANGES CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

ENGINEER'S SEAL
NEW MEXICO 5258 REGISTERED PROFESSIONAL ENGINEER DONNY R. HOUCHIN
4-6-99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 4-6-99
		DESIGNED BY HC-A	DATE 4-6-99
		DRAWN BY HC-A	DATE 4-6-99
		CHECKED BY RPB	

NEW MEXICO LAND SURVEYOR STATE OF 4743 PAT GUTIERREZ
12-12-00

RECORD DRAWING
DATE: 12-12-00

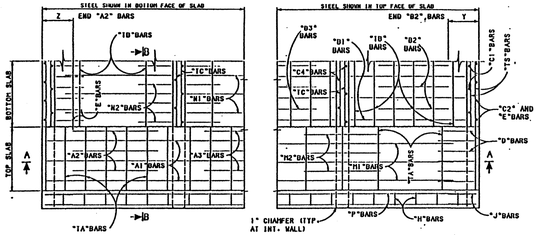
Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
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(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

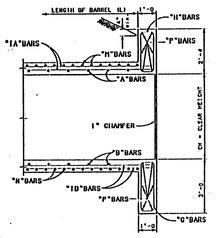
SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
SIDE CHANNEL JUNCTION DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED Feb 28, 2000 APR - 7 1999 DESIGN REVIEW COMMITTEE	APPROVED APR - 7 1999 CITY ENGINEER			

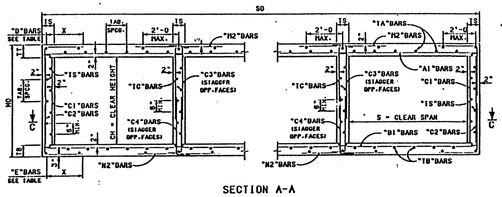
CITY PROJECT No. 6050.91 | ZONE MAP NO. D-18 | SHEET 9 OF 16



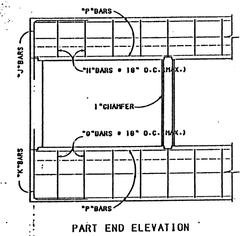
PART PLAN AND PART SECTION C-C



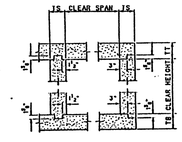
PART SECTION B-B



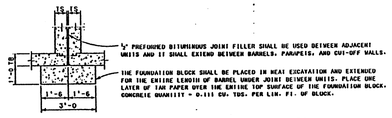
SECTION A-A



PART END ELEVATION



CONSTRUCTION JOINT DETAIL



JOINT DETAIL FOR MULTIPLE UNIT BOXES

- ½" PREFORMED BITUMINOUS JOINT FILLER SHALL BE USED BETWEEN ADJACENT UNITS AND IT SHALL EXTEND BETWEEN BARRELS, PARAPETS, AND CUT-OFF WALLS.
- THE FOUNDATION BLOCK SHALL BE PLACED IN NEAT EXCAVATION AND EXTENDED FOR THE ENTIRE LENGTH OF BARREL UNDER JOINT BETWEEN UNITS. PLACE ONE LAYER OF 15# PAPER OVER THE ENTIRE TOP SURFACE OF THE FOUNDATION BLOCK. CONCRETE QUANTITY = 0.111 CU. YDS. PER LIN. FT. OF BLOCK.

GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "A". CHAMFER ALL THE EXPOSED EDGES 3/4".
2. ALL REINFORCING STEEL TO BE DEFORMED BARS, CONFORMING TO AASHTO M-31, GRADE 60. ALL DIMENSIONS REFER TO THE CENTERLINE OF BAR.
3. WHEN NECESSARY, "I" BARS MAY BE SPLICED BY LAPPING AT LEAST 20 BAR DIAMETERS. PAY WEIGHT FOR REINFORCING STEEL DOES NOT INCLUDE SPLICES. THE COST OF THE SPLICE MATERIAL IS TO BE INCLUDED IN THE UNIT PRICE BID FOR REINFORCING STEEL.
4. VOLUME OF CONCRETE = (L)x(CONCRETE QUANTITY/LIN. FT.) PLUS CONCRETE AT ENDS.
5. WEIGHT OF REINFORCING STEEL = (L)x(WEIGHT OF REINF./LIN.FT.) PLUS WEIGHT AT ENDS.
6. PLACE "1A" BARS ON "A" BARS AND "1B" BARS UNDER "B" BARS, SPACED AS SHOWN IN THE TABLE. THE REMAINING "1A" BARS, AND "1B" BARS ARE TO BE PLACED ADJACENT TO THE "D", "E", "H", AND "N" BARS AS INDICATED IN "SECTION A-A", AT 2'-0 MAX.
7. PLACE "1S" BARS NEXT TO "C1" BARS, SPACED AS SHOWN IN THE TABLE. THE REMAINING "1S" BARS SHALL BE PLACED IN SIDEWALL NEXT TO "C2", "G", AND "I" BARS. WHEN "C1" BARS ARE NOT REQUIRED, PLACE ALL "1S" BARS NEXT TO "C2", "D", AND "E" BARS.
8. PLACE "A1", "A2", "A3", "D1", "D2", "H1", AND "H1" BARS SYMMETRICAL TO THE CENTERLINE OF THE BOX. PLACE "H2" AND "B2" BARS SYMMETRICAL TO THE CENTERLINE OF THE WALLS.
9. "COVER" IS HEIGHT OF FILL FROM TOP OF THE BOX TO THE FINISHED GRADE.

DESIGN DATA

DESIGN ACCORDING TO A.A.S.H.T.O. SPECIFICATIONS, 1957.
LIVE LOAD= H20-S16-44 & INTERSTATE ALTERNATE LOADING
WEIGHT OF FILL ON TOP OF BOX= 84#/CU.FT.
HORIZONTAL EARTH PRESSURE= 30#/SQ.FT.+ 2" SURCHARGE
DESIGN STRESSES= f'c = 3000 psi, fs = 1200 psi, fv = 20,000 psi, n = 10.

NO.	DESCRIPTION	DATE	BY
5			
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3			
2			
1	REVISED NOTE 17	6-8-94	PB

REVISIONS FOR CHANGE NOTICE(S)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONCRETE BOX CULVERT BARRELS QUADRUPLE OPENING - NORMAL ALL DESIGNS

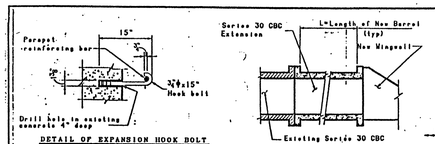
GENERAL DATA

LEADS OF DESIGN: Albert L. Abraham 7-12-94
APPROVED: Harry L. Abraham 7-12-94
DESIGN OF STRUCTURES

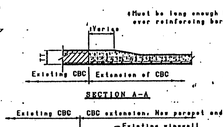
SERIAL CB-34 SHEET 1 OF 5

N. M. P. ..... SHEET .....

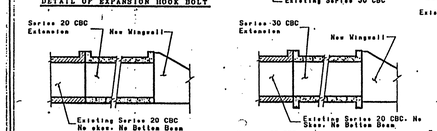
B810GE41/STANDARDS/B810GE/STANDARDS417



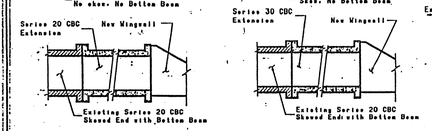
DETAIL OF EXPANSION HOOK BOLT



SECTION A-A

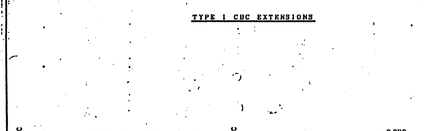


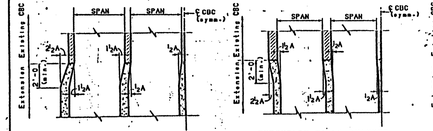
PLAN



PROFILE

TYPE II CBC EXTENSIONS

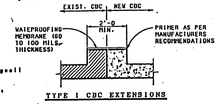




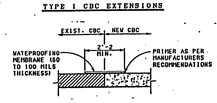
TYPE I CBC EXTENSIONS

GENERAL NOTES

1. FOR TYPE I CBC EXTENSION, USE SERIES 20 WHEN THE SPAN AND RISE OF THE EXISTING SERIES 20 CBC DOES NOT MATCH ANY SERIES 30 CBC SHOWN IN THE STANDARDS.
2. REMOVE WINGS AND APRONS (WHERE PRESENT) FROM THE EXISTING CBC. LONGITUDINAL BARS EXPOSED BY REMOVAL OF EXISTING CONCRETE ARE TO BE CLEANED AND STRAIGHTENED AND BONDED INTO CBC EXTENSION.
3. FOR TYPE I CBC EXTENSIONS, HOOK BOLTS SHALL BE INSTALLED ONLY IN THE EXISTING PARAPET (NOT IN VERTICAL WALLS OR BOTTOM SLAB) AND SPACED AT 1'-0 CENTERS.
4. FOR TYPE II CBC EXTENSION REMOVE ENOUGH OF EXISTING CBC CONCRETE TO EXPOSE THE LARGER OF 2'-0 OF LONGITUDINAL STEEL OR A MINIMUM LENGTH OF TRANSVERSE REINFORCING NEAR MID-SPAN EQUAL TO THE FOLLOWING:
   - #4 BARS - 12"
   - #5 BARS - 14"
   - #6 BARS - 19"
   - #7 BARS - 26"
   - #8 BARS - 33"
   - #9 BARS - 41"
5. THERE WILL NOT BE A PARAPET OR A CUTOFF WALL AT THE CONNECTION OF THE EXISTING AND THE EXTENDED TYPE II CBC. THE REINFORCING FOR A PARAPET AND CUTOFF WALL CAN BE OMITTED AT THE CONNECTION END OF THE CBC. FOR ESTIMATE QUANTITIES THE EXTENDED BARREL LENGTH WILL BE BASED ON HAVING A MINIMUM 2'-0 OF EXISTING CBC. PAY QUANTITIES WILL BE BASED ON THE ACTUAL REMOVAL.
6. COST OF FURNISHING AND PLACING EXPANSION BOLTS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
7. WATERPROOFING MEMBRANE SHALL BE USED ON THE TOP SLAB, PARAPETS, EXTERIOR SIDE WALLS ON ALL CBC EXTENSIONS, AND AT THE LONGITUDINAL JOINT BETWEEN MULTIPLE UNIT BOXES. COST OF FURNISHING AND PLACING THE MEMBRANE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.



TYPE I CBC EXTENSIONS



TYPE II CBC EXTENSIONS

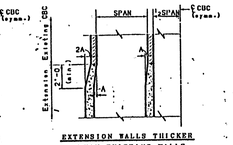
ACCEPTABLE WATERPROOFING MEMBRANE MATERIALS ARE:

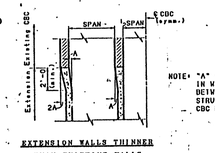
MEL-ROL SHEET AS MANUFACTURED BY W.R. MEADOWS, INC.

EDWARDS BARRIER CS-212 AS MANUFACTURED BY CONCRETE SEALANT.

WATERPROOFING MEMBRANE DETAILS

CBC WITH EVEN NUMBER OF OPENINGS





CBC WITH ODD NUMBER OF OPENINGS

WALL TRANSITION DETAILS

NOTE: "A" = THE DIFFERENCE IN WALL THICKNESS BETWEEN THE EXISTING STRUCTURE AND THE CBC EXTENSION.

NO.	DESCRIPTION	DATE	BY
5			
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1	REVISIONS FOR CHANGE NOTICE(S)		

NEW MEXICO STATE HIGHWAY DEPARTMENT

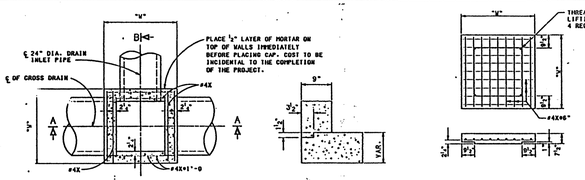
CONCRETE BOX CULVERT EXTENSION

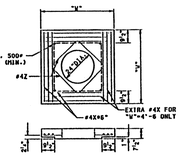
LEADS OF DESIGN: Albert L. Abraham 7-12-94
APPROVED: Harry L. Abraham 7-12-94
DESIGN OF STRUCTURES

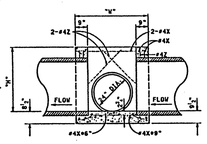
SERIAL BCE-001

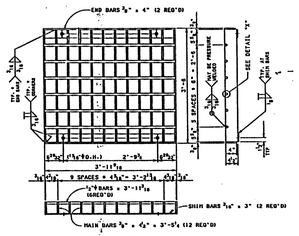
B810GE41/STANDARDS/B810GE/STANDARDS413A

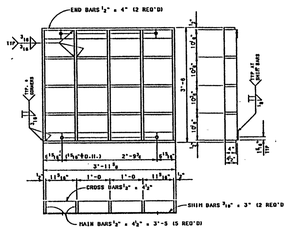
| DIMENSIONS | | | | | | | | QUANTITIES | | REINFORCING BARS | | | | | | | |

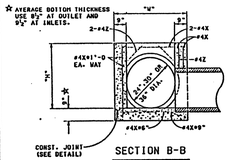


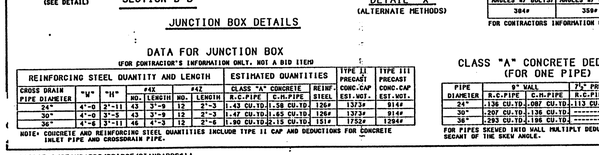


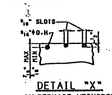








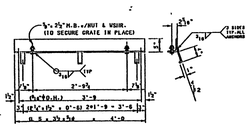




GRATING DETAILS

STRUCTURAL STEEL FOR URBAN USE (GRATE AND SEAT ANGLES W/ BOLTS)	STRUCTURAL STEEL FOR RURAL USE (GRATE AND SEAT ANGLES W/ BOLTS)
384#	358#

FOR CONTRACTORS INFORMATION ONLY.



GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "A". CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED ON THE DETAILS.
2. REINFORCING BARS SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M-31, GRADE 60. DIMENSIONS REFER TO THE CENTERLINE OF BAR UNLESS OTHERWISE NOTED ON THE DETAILS.
3. STRUCTURAL STEEL SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M-183 AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS.
4. DROP INLETS MAY BE USED WITH EITHER R.C.P. OR C.M.P. R.C.P. IS SHOWN IN THE DETAILS.
5. THE TYPE OF EPOXY CONCRETE ADHESIVE SHALL BE APPROVED BY THE ENGINEER AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.
6. QUANTITIES SHOWN ARE FOR INFORMATION ONLY.
7. INSTALLATIONS SHOWN ARE FOR DROP INLETS LOCATED WHERE THE MEDIAN DITCH LINE IS ON A CONTINUOUS SLOPE. IF THE DROP INLET IS LOCATED AT A LOW POINT IN THE MEDIAN DITCH LINE, NO DIKE WILL BE REQUIRED. SEE ROADWAY DESIGN DETAILS FOR SLOPES SHOULDER AND INSIDE AND OUTSIDE SIDE. THE TOP OF THE GRATE FOR ALL MEDIAN DROP INLETS SHALL BE SET AT AN ELEVATION THAT WILL PERMIT THE USE OF 6:1 OR FLATTER ROADWAY SLOPES OUTSIDE THE INLET GRATE. THE MEDIAN DITCH SHALL BE GRADED TO DRAIN TO THE DROP INLET.

DRAWINGS REQUIRED

1. SERIAL BMDI-001: JUNCTION BOX, GRATES, NOTES, AND QUANTITIES.
2. SERIAL BMDI-002: DROP INLETS TYPE I AND II.
3. SERIAL BMDI-003: DROP INLET TYPE III.
4. ROADWAY DESIGN DRAWINGS: FOR TYPE, LOCATION, HEIGHT, AND NUMBER REQUIRED.

DESIGN DATA

DESIGN ACCORDING TO A.A.S.H.T.O. SPECIFICATIONS DATED 1983.

DESIGN STRESSES:
REINFORCED CONCRETE: f'_c=1200 psi. F_y=60,000 psi. n=10.
STRUCTURAL STEEL: f_s=20,000 psi. F_y=36,000 psi.

EARTH PRESSURE: 36 lbs./sq.ft. EQUIV. FLUID PRESSURE 2'-0 SURCHARGE.

LIVE LOAD ON URBAN GRATING: ONE 16,000 lbs. WHEEL PLUS 30% IMPACT.

LIVE LOAD ON RURAL GRATING: ONE 16,000 lbs. WHEEL PLUS 30% IMPACT. 33% OVERSTRESS.

DATA FOR JUNCTION BOX
(FOR CONTRACTOR'S INFORMATION ONLY. NOT A BID ITEM)

REINFORCING STEEL QUANTITY AND LENGTH						ESTIMATED QUANTITIES			TYPE II PRECAST	TYPE III PRECAST
CROSS DRAIN PIPE DIAMETER	"W"	"H"	#4X		#4Z	CLASS "A" CONCRETE		REINF.	CONC.CAP	CONC.CAP
			NO.	LENGTH	NO.	LENGTH	R.C.PIPE	C.M.PIPE	STEEL	EST.WGT.	EST.WGT.
24"	4'-0	3'-11	43	3'-9	12	3'-3	1.42 CU.YD.	1.58 CU.YD.	126#	1373#	914#
30"	4'-0	3'-5	43	3'-9	12	3'-3	1.47 CU.YD.	1.65 CU.YD.	126#	1373#	914#
36"	4'-6	3'-11	46	4'-3	12	3'-6	1.90 CU.YD.	2.13 CU.YD.	151#	1752#	1294#

NOTE: CONCRETE AND REINFORCING STEEL QUANTITIES INCLUDE TYPE II CAP AND DEDUCTIONS FOR CONCRETE INLET PIPE AND CROSSDRAIN PIPE.

CLASS "A" CONCRETE DEDUCTIONS
(FOR ONE PIPE)

PIPE DIAMETER	8" WALL		3½" PRECAST CONC-CAP	
	R.C.PIPE	C.M.PIPE	R.C.PIPE	C.M.PIPE
24"	.136 CU.YD.	.087 CU.YD.	.113 CU.YD.	.073 CU.YD.
30"	.207 CU.YD.	.138 CU.YD.	----------	----------
36"	.293 CU.YD.	.196 CU.YD.	----------	----------

FOR PIPES SKEWED INTO WALL MULTIPLY DEDUCTION BY THE SECANT OF THE SKEW ANGLE.

NOTE: MEDIAN DROP INLETS. COMPLETE IN PLACE. WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH.

NO.	DESCRIPTION	DATE	BY
8			
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1	REDRAWN FROM M01-1	7/31/95	SJM

REVISIONS OR CHANGE NOTICES

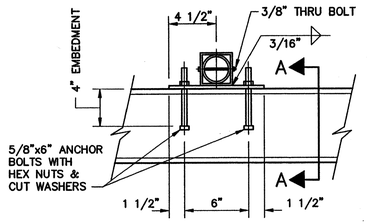
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

MEDIAN DROP INLET
JUNCTION BOX, GRATES, NOTES, AND QUANTITIES

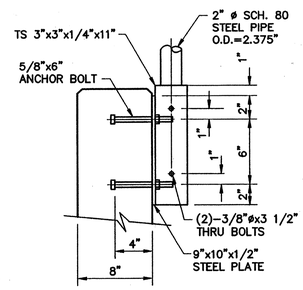
SERIAL BMDI-001

BRIDGE#1/STANDARDS/BRIDGE/STANDARDS91A

N. M. P. ..... SHEET .....



FENCE POST
WALL BRACKET DETAIL
NOT TO SCALE



SECTION A-A
NOT TO SCALE

FENCE NOTES:

1. ALL PLATES, ANGLES, BOLTS, ETC. SHALL BE STRUCTURAL STEEL AND GALVANIZED PER CoA STANDARD SPECIFICATIONS.
2. ALL FENCE MATERIALS SHALL CONFORM TO CoA STANDARD SPECIFICATIONS AND DETAILS, EXCEPT THAT FENCE POSTS SHALL BE 2" DIA., SCHED. 80 PIPE.
3. INSTALL CHAINLINK FABRIC ON THE OUTSIDE OF THE PIPE RAILING WITH TENSION BARS AND THREE (3) CLAMPS AT EACH CORNER POST.
4. PAINT ALL FIELD WELDS WITH GALVANIZING COATING.

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart DATE 12/00
STAKED BY BH DATE 12/00
INSPECTOR'S ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
CORRECTED BY BH DATE 12/00

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

ENGINEER'S SEAL

REGISTERED ENGINEER No. 5258 NEW MEXICO HANS H. CHRISTENSEN

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
	DATE 3-3-99	DESIGNED BY HC-A
	DATE 3-3-99	DRAWN BY HC-A
	DATE 3-3-99	CHECKED BY RPB

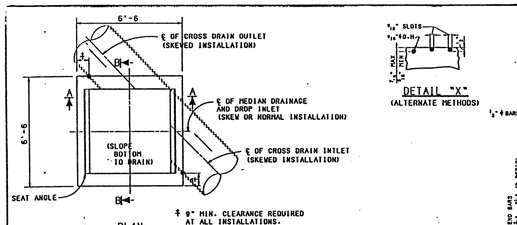
Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

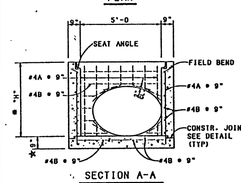
SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
FENCE AND INLET GRATE DETAILS

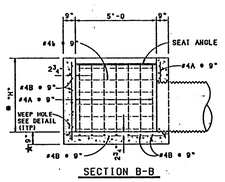
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	11	16



‡ 9" MIN. CLEARANCE REQUIRED AT ALL INSTALLATIONS.





★ AVERAGE BOTTOM THICKNESS USE 8½" AT OUTLET AND 9½" AT HIGH SIDE.

* "H"= DIA. OR RISE OF PIPE + 1'-3 MINIMUM, AND 15'-0 MAXIMUM.

	"H" PLUS 6"	REQ'D. 28
#4A	6'-3	" 18 + S.33H▲
#4B		

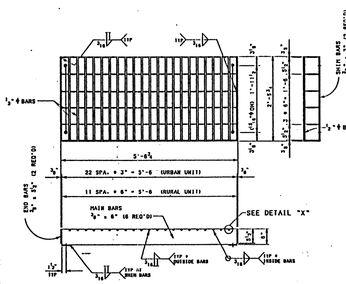
REINFORCING STEEL DETAILS

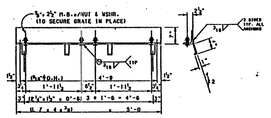
▲ NOTE: ROUND OFF "H" TO THE NEAREST FOOT. USE SHORTER LENGTH WHEN DIMENSION FALLS ON 6".

ESTIMATED QUANTITIES
(FOR CONTRACTOR'S INFORMATION ONLY. NOT A BID ITEM)

CLASS "A" CONCRETE	1.102+0.639"H" CU.YDS.
REINFORCING STEEL	84.50+40.96"H" LBS.
STRUCTURAL STEEL (URBAN)	820 LBS.
STRUCTURAL STEEL (RURAL)	785 LBS.

NOTE: TO OBTAIN CLASS "A" CONCRETE QUANTITY, USE VALUE TABULATED ABOVE AND DEDUCT THE VOLUME OF THE PIPE OPENINGS FROM THE QUANTITY TABULATED.





GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "A". CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED ON THE DETAILS.
2. REINFORCING BARS SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M-31, GRADE 60. DIMENSIONS REFER TO THE CENTERLINE OF BAR UNLESS OTHERWISE NOTED ON THE DETAILS.
3. STRUCTURAL STEEL SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M-183 AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS.
4. DROP INLETS MAY BE USED WITH EITHER R.C.P. OR C.M.P. C.M.P. IS SHOWN IN THE DETAILS.
5. PIPES MAY BE LOCATED ON ANY WALL AND MAY BE ANY SHAPE, DIAMETER OR SPAN OF THE PIPES WILL BE DETERMINED BY THE SKEW ANGLE AND THE REQUIRED CLEARANCE AS SHOWN ON THE PLAN VIEW.

DRAWINGS REQUIRED

ROADWAY DESIGN DRAWINGS: FOR PIPE TYPE, LOCATION, HEIGHT, SKEW ANGLE, AND NUMBER REQUIRED.

DESIGN DATA

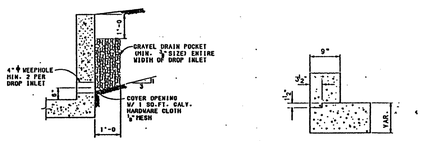
DESIGN ACCORDING TO A.A.S.H.T.O. SPECIFICATIONS DATED 1992.

DESIGN STRESSES:
REINFORCED CONCRETE: f'_c=1200 psi. F_y=60,000 psi. n=10.
STRUCTURAL STEEL: f_s=20,000 psi. F_y=36,000 psi.

EARTH PRESSURE: 36 lbs./sq.ft. EQUIV. FLUID PRESSURE 2'-0 SURCHARGE.

LIVE LOAD ON URBAN GRATING: ONE 16,000 lbs. WHEEL PLUS 30% IMPACT. 33% OVERSTRESS.

NOTE: MEDIAN DROP INLETS. COMPLETE IN PLACE. WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH.



NO.	REVISED NOTES	7/31/95	SJM
	DESCRIPTION	DATE	BY

REVISIONS OR CHANGE NOTICES

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

MEDIAN DROP INLET
5'-0 x 5'-0
DETAILS AND QUANTITIES

SERIAL BMDI-006

BRIDGE#1/STANDARDS/BRIDGE/STANDARDS91B

N. M. P. ..... SHEET .....

SCANNED BY MESA REPRO

REGISTERED PROFESSIONAL SURVEYOR STATE OF NEW MEXICO 4743 RAY GUTIERREZ

12-12-00

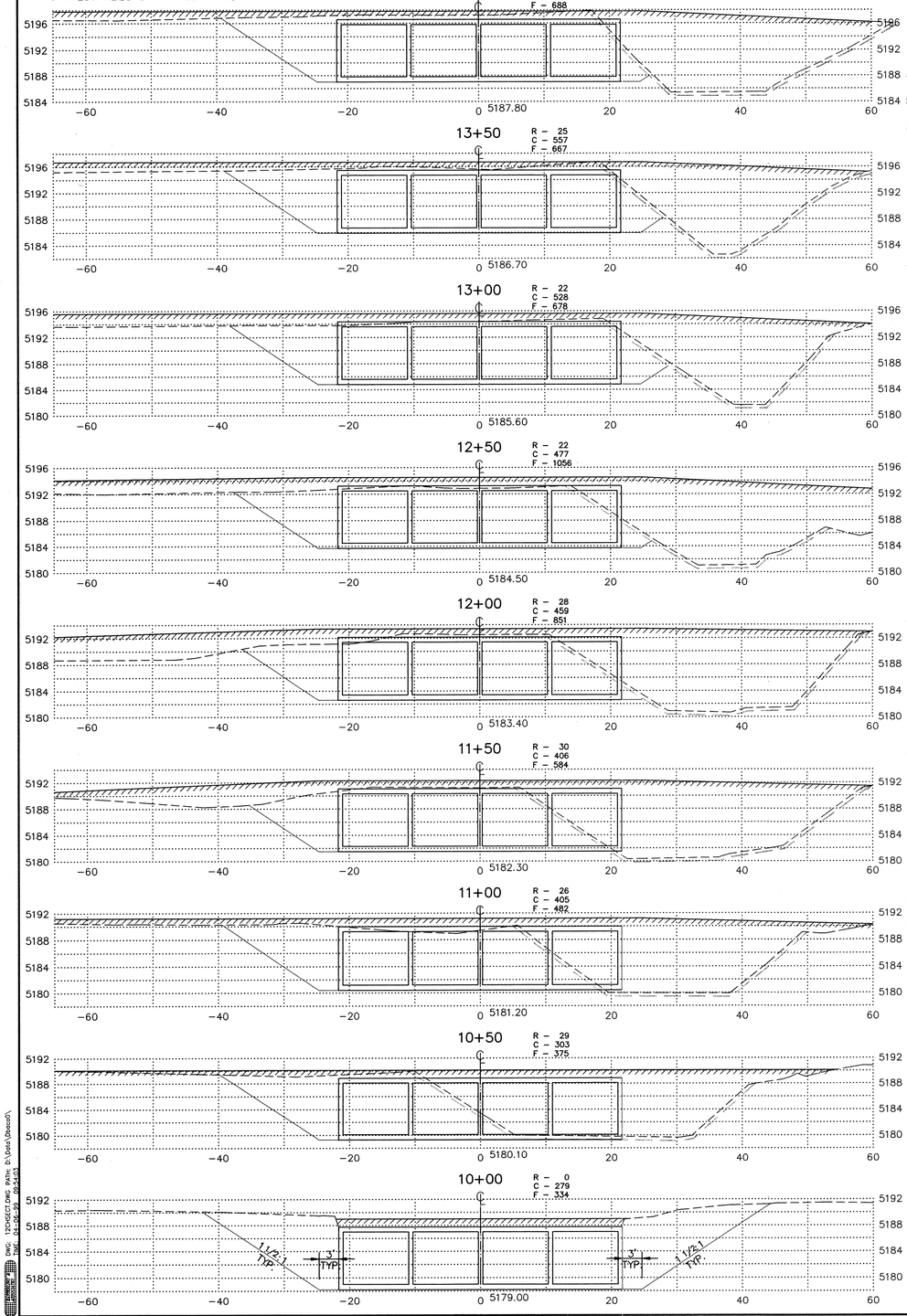
RECORD DRAWING
DATE: 12-12-00

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PLOT: 03-24-99 08:04:06

NOTES:
FOR ESTIMATING PURPOSES, THE EXISTING "PLACED RIP-RAP" FROM APPROXIMATELY STA. 21+40 TO STA. 29+44 WAS ASSUMED TO BE 3 FT. THICK AS PER THE NOMINAL THICKNESS SHOWN ON THE "RECORD DRAWINGS" FOR THIS WORK. THE ESTIMATED QUANTITY OF "EXISTING PLACED RIP-RAP" WAS CALCULATED TO BE APPROXIMATELY 6,000 CY.
THE MISCELLANEOUS DUMPED CONCRETE DEBRIS, ETC., DOWNSTREAM FROM STA. 10+00 TO STA. 21+40, WAS ESTIMATED TO HAVE AN AVERAGE THICKNESS OF 0.5 FT. WHICH GAVE AN ESTIMATED QUANTITY OF APPROXIMATELY 1,100 CY.

ALL OF THIS MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, EXCEPT SUCH FRAGMENTED MATERIAL AS MAY REMAIN IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 204.6 OF THE STANDARD SPECIFICATIONS.

R = EST. BROKEN CONCRETE – SQ. FT.
C = EST. REQ'D EARTH CUT – SQ. FT.
F = EST. REQ'D EARTH FILL – SQ. FT.



NOTE:
SEE SHEET 16D FOR CROSS-SECTIONS DOWNSTREAM OF STA. 18+75

AS BUILT INFORMATION
CONTRACTOR Moore & Cowart
WORK STAKED BY BH DATE 12/00
ASSESSED BY ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWINGS CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18
X= 402,436.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
BOHANNAN-HUSTON, INC.
TOPOGRAPHIC MAP OF
PLAZA DEL PASEO – 7/98
ADD'L POINTS AS REQUIRED
BY SURV-TEK – 12/98

ENGINEER'S SEAL
REGISTERED ENGINEER No. 5258 NEW MEXICO JAMES R. LOWRY
6-6-99

REVISIONS
NO. DATE REMARKS BY
DESIGN DATE 4-6-99
DESIGNED BY HC-A DATE 4-6-99
DRAWN BY HC-A DATE 4-6-99
CHECKED BY RPB DATE 4-6-99

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO 4743 PAT GUTIERREZ
12-12-00

RECORD DRAWING
DATE: 12-12-00

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
CROSS-SECTIONS

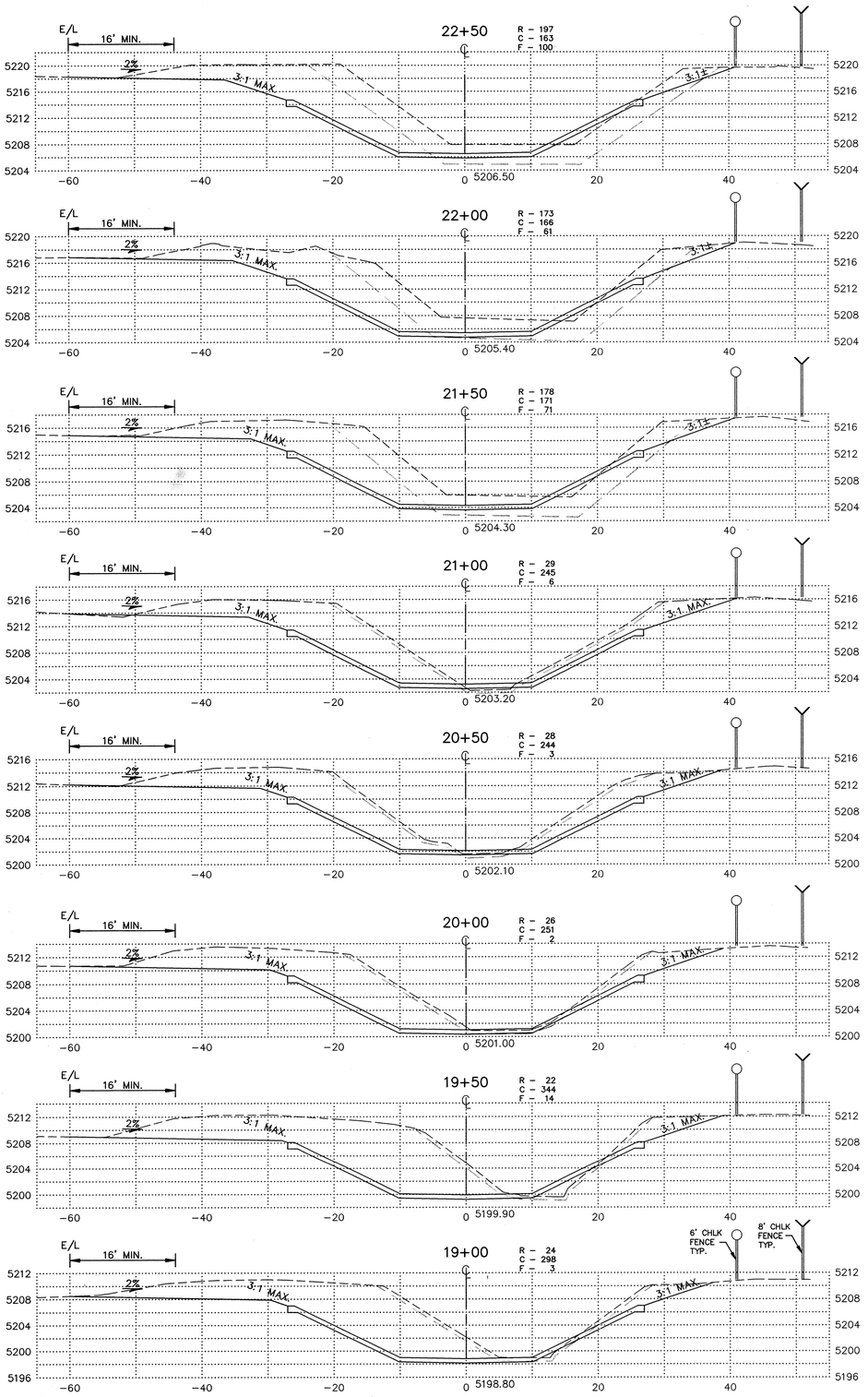
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED Feb 28, 2000 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER		* 2/3/00	

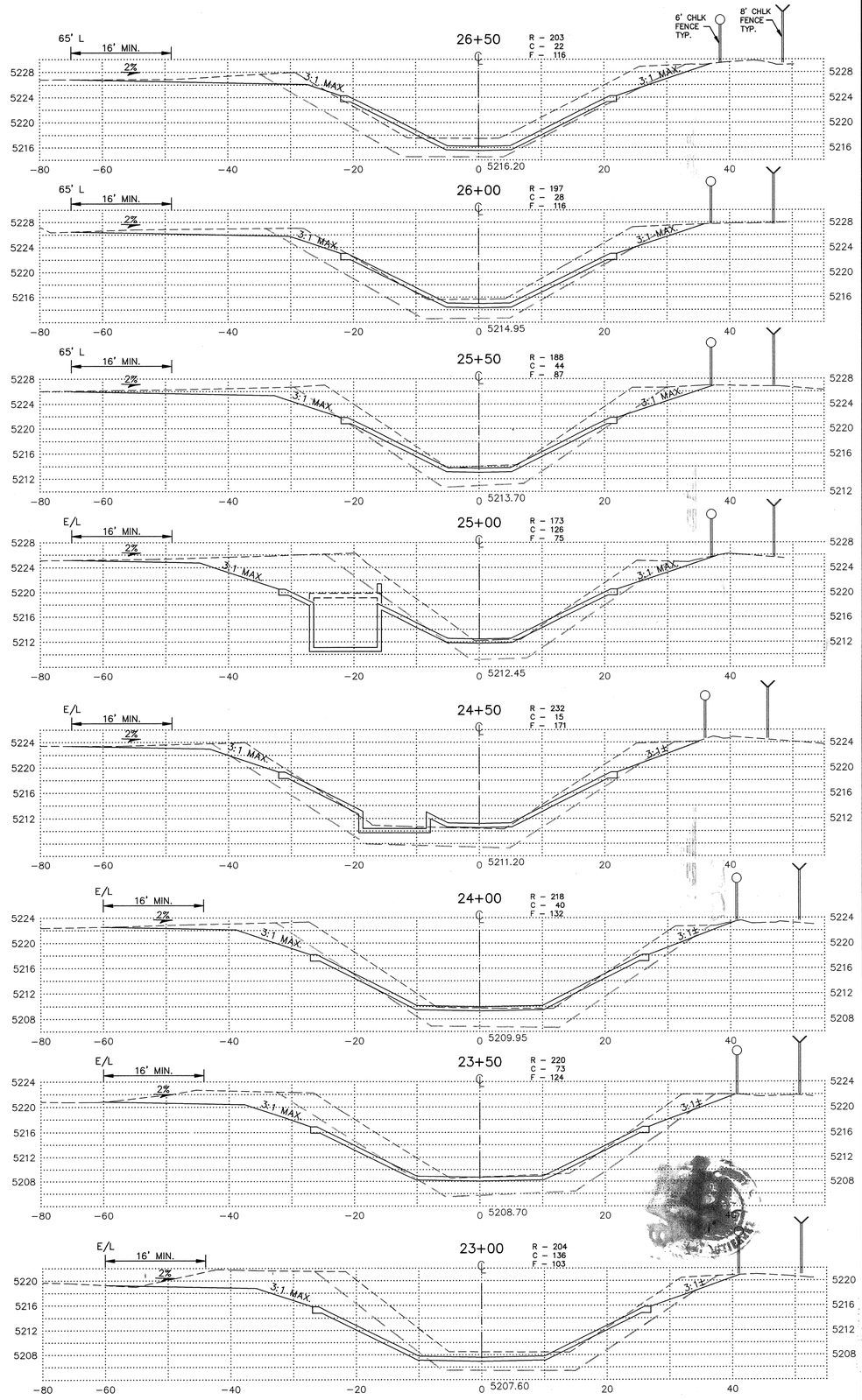
CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	12	16

* UPDATE BY BH TO PROVIDE FOR TEMPORARY IMPROVEMENTS ONLY FOR STA. 10+00 TO 18+75 (CBC NOT IN THIS CONTRACT)

DWG: 12CHSECT.dwg, PLOT: 1:1 (Jane Ubersox), 14-DEC-99 09:54:21

SCANNED BY MESA REPRO





DWG: L:\PROJECT.DWG PAN: D:\Data\Grasso\
TIME: 24-JUL-99 09:56:11

SCANNED BY
MESA REPRO

AS BUILT INFORMATION

CONTRACTOR Moore & Couvert DATE 12/00
WORK INSPECTED BY BH DATE 12/00
STAKED BY BH DATE 12/00
ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
AS BUILT DRAWINGS CORRECTED BY BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,436.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED BY SURVI-TEK - 12/98	

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W. WEBB
No. 5258
NEW MEXICO
JOHN W. WEBB
4-6-99

REMARKS / REVISIONS

NO.	DATE	BY
DESIGN	4-6-99	
DESIGNED BY HC-A	DATE 4-6-99	
DRAWN BY HC-A	DATE 4-6-99	
CHECKED BY RPB		

RECORD DRAWING
DATE: 12-12-00

Pat Gutierrez 12/12/00

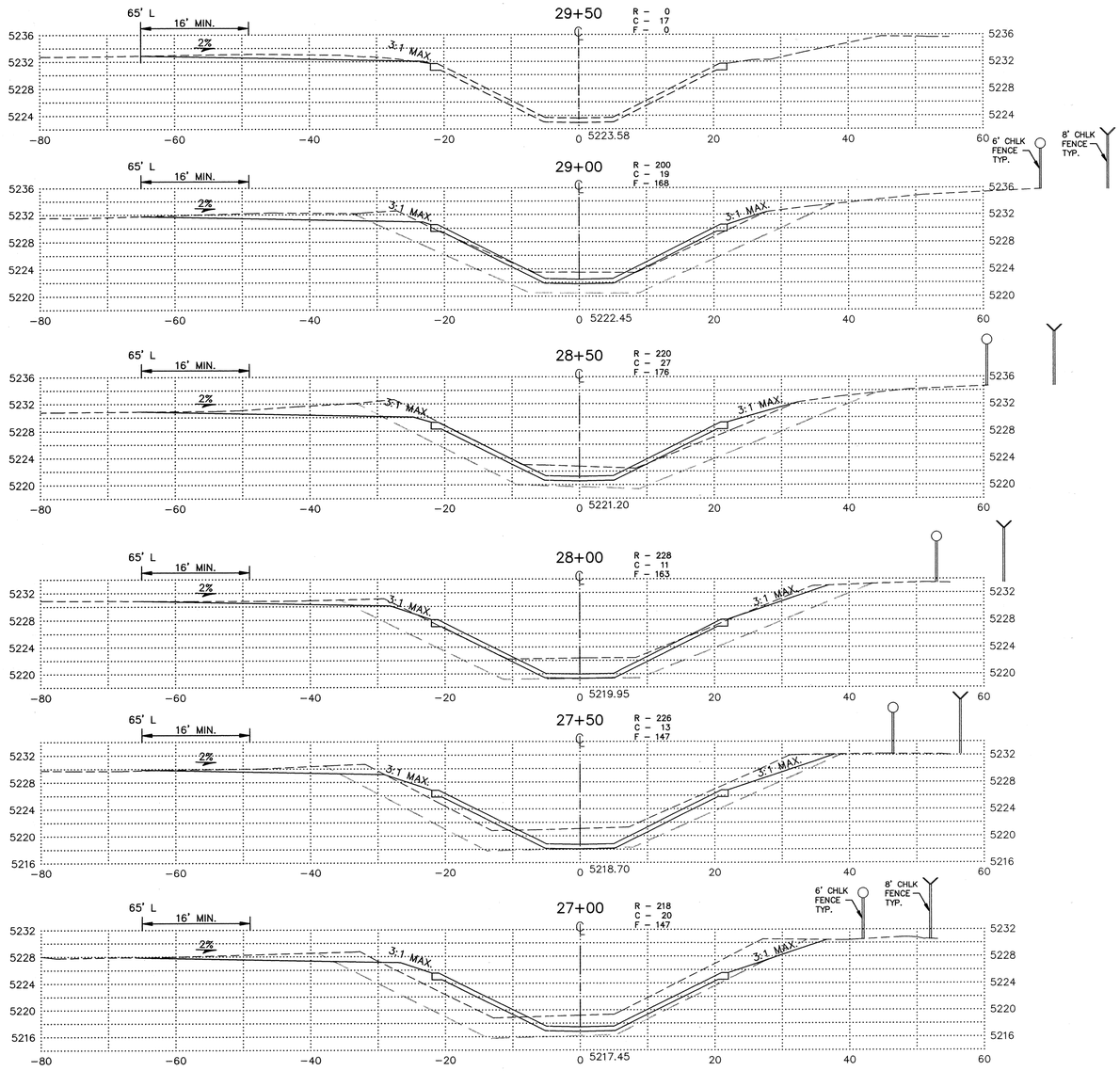
Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
CROSS-SECTIONS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER			

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	13	16



SCANNED BY MESA REPRO

DWG: I:\PROJECT\DWG PATH: D:\Data\Dxxxx0\
DWG: 04-25-99 09:47

RECORD DRAWING
DATE: 12-12-00

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO – 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK – 12/98	

BENCH MARKS

ACS ALUM. CAP "9–C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17–D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart
WORK BEGUN
STAKED BY BH DATE 12/00
INSPECTION
ACCEPTANCE BY BH DATE 12/00
FIELD
VERIFICATION BY BH DATE 12/00
DRAWINGS
CORRECTED BY BH DATE 12/00

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL

HANS H. CONCHEPTS
No. 5258
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY HC–A	DATE 4–6–99
		DRAWN BY HC–A	DATE 4–6–99
		CHECKED BY RPB	DATE 4–6–99

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I–25 TO SAN PEDRO BLVD. N.E.)
CROSS–SECTIONS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER			

CITY PROJECT No. 6050.91 | ZONE MAP NO. D–18 | SHEET 14 OF 16

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

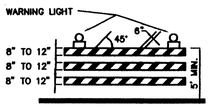
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

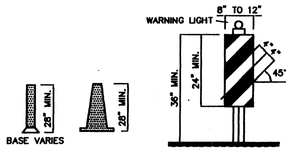
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.

SCANNED BY MESA REPRO



TYPE III BARRICADE

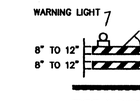


CONES — VERTICAL PANEL — HIGH LEVEL WARNING DEVICE

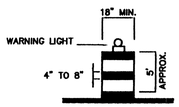
LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, OR BARREL
- BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH – SEE CHART BELOW

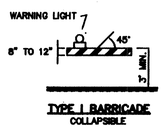
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



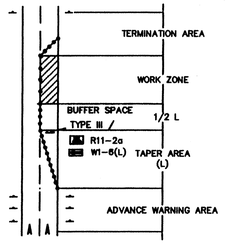
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

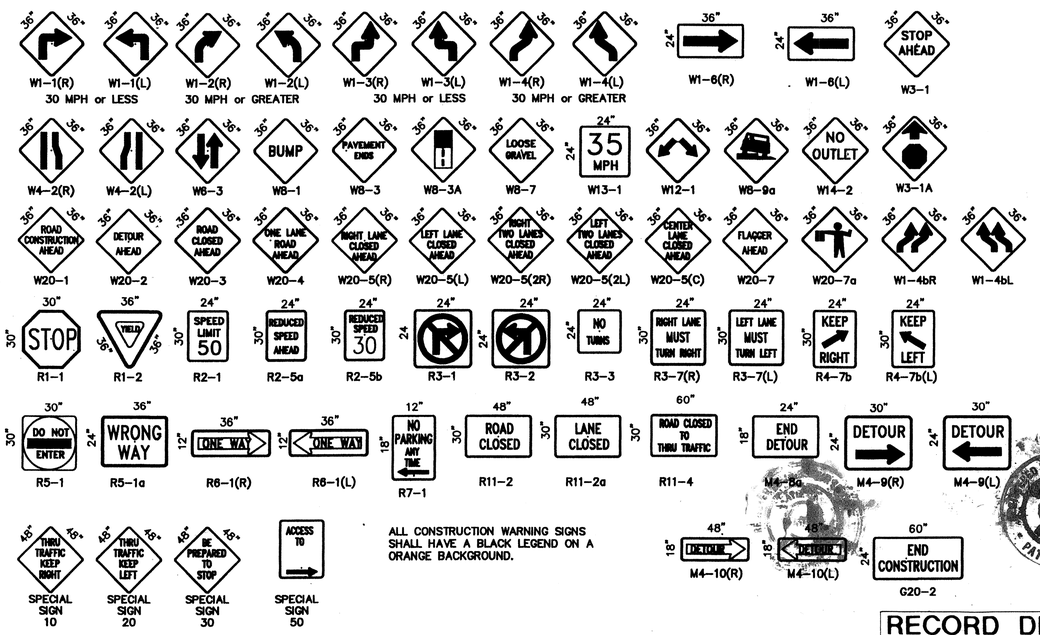
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	L = W x S

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

RECORD DRAWING
DATE: 12-12-00

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart	DATE
WORK STAKED BY BH	DATE 12/96
FIELD WORK ACCEPTANCE BY BH	DATE 12/96
FIELD VERIFICATION BY BH	DATE 12/96
AS-BUILT DRAWINGS CORRECTED BY BH	DATE 12/96

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION

NO.	BY	DATE
FIELD NOTES		

ENGINEER'S SEAL

DONALD B. ROTHAUS
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		DATE	
DRAWN BY	C.O.A. STANDARDS	DATE	
CHECKED BY		DATE	

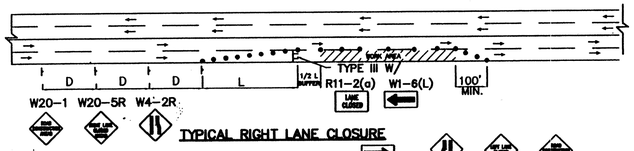
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

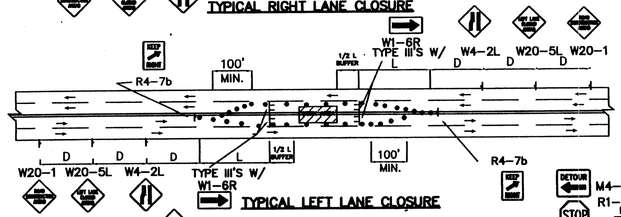
DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE MO./DAY/YR.	MO./DAY/YR.
COA Standard	Pat Gutierrez 12-12-00		

PROJECT NO.	MAP NO.	SHEET OF
6050.91	D-18	15 16

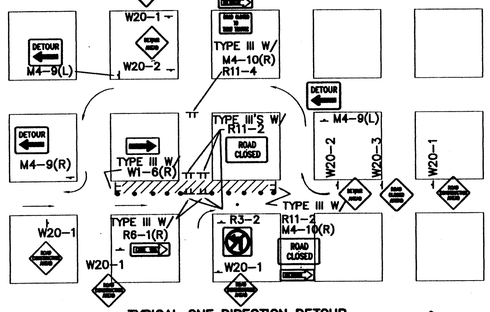
CTCSTNDT.DWG



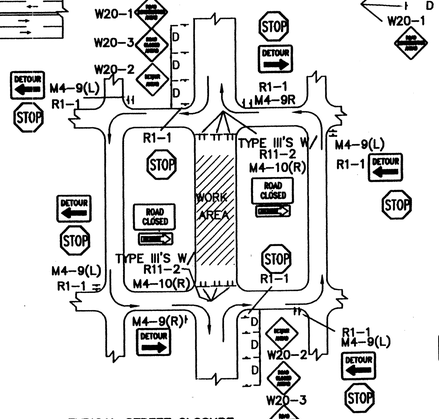
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE

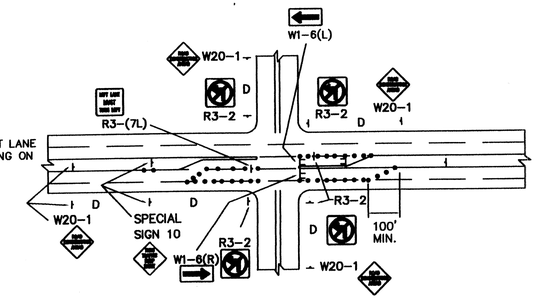


TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

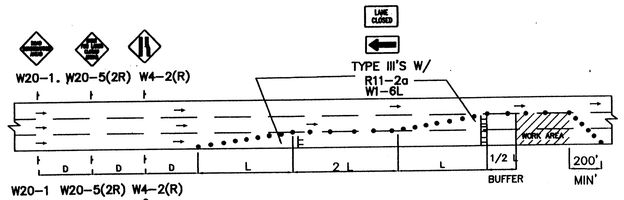
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



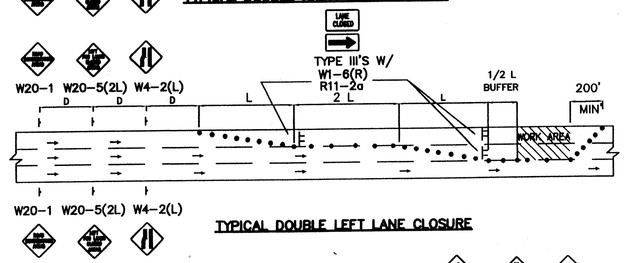
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

TYPICAL LANE CLOSURE AT INTERSECTION

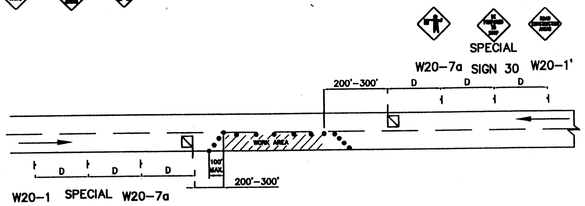
NOTE: DEPENDING ON WORK ZONE LOCATION



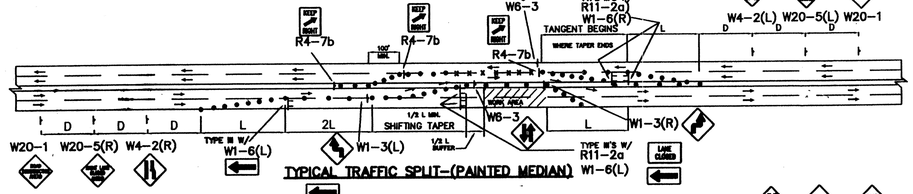
TYPICAL DOUBLE RIGHT LANE CLOSURE



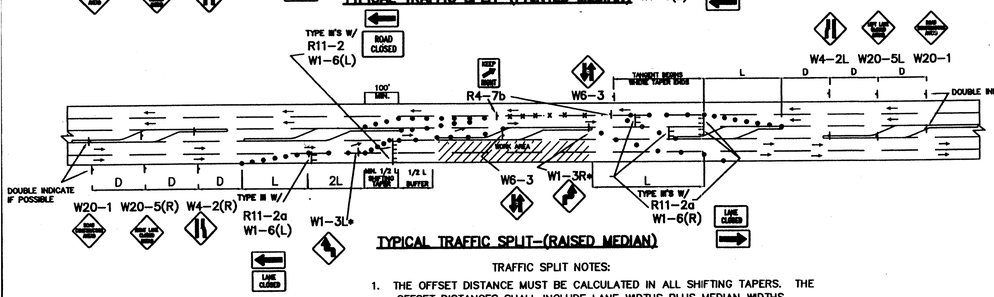
TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



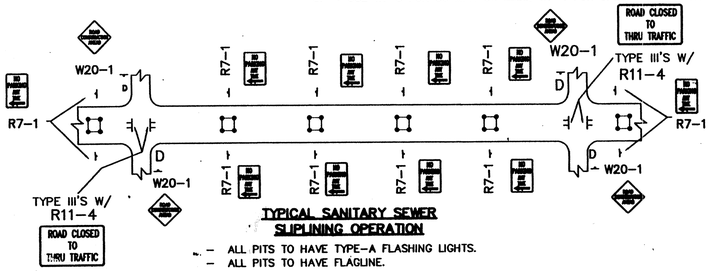
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

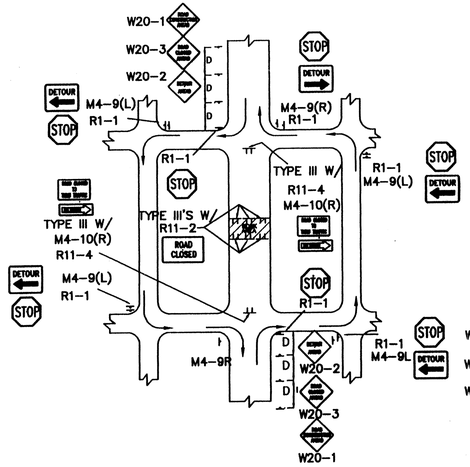
TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



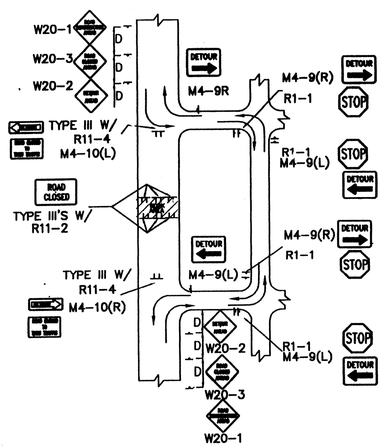
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.



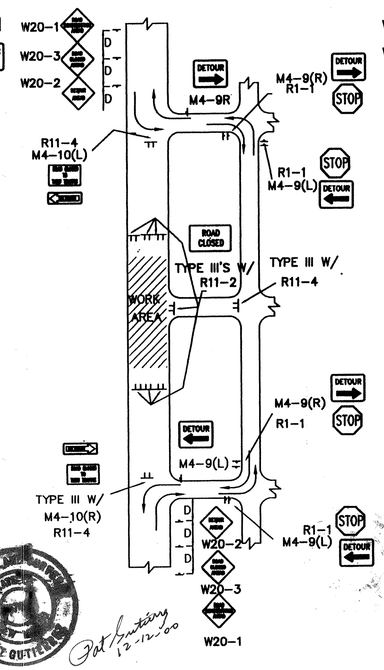
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



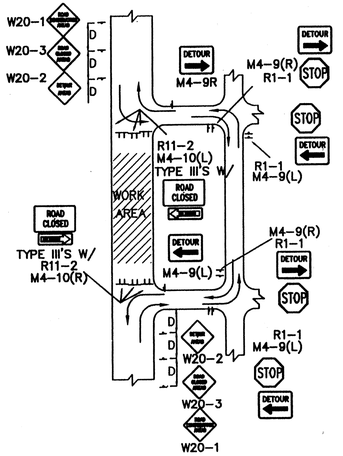
TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

GENERAL NOTE:

ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

RECORD DRAWING
DATE: 12-12-00

SCANNED BY MESA REPRO

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart DATE

WORK STAKED BY BH DATE 6/00

ACCEPTANCE BY DATE

FIELD VERIFICATION BY BH DATE 12/00

DRAWINGS CORRECTED BY BH DATE 6/01

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

SURVEY INFORMATION

BENCH MARKS

FIELD NOTES

NO. BY DATE

ENGINEER'S SEAL

REMARKS

REVISIONS

NO. DATE BY

DESIGN

DESIGNED BY C.O.A. STANDARDS DATE

DRAWN BY DATE

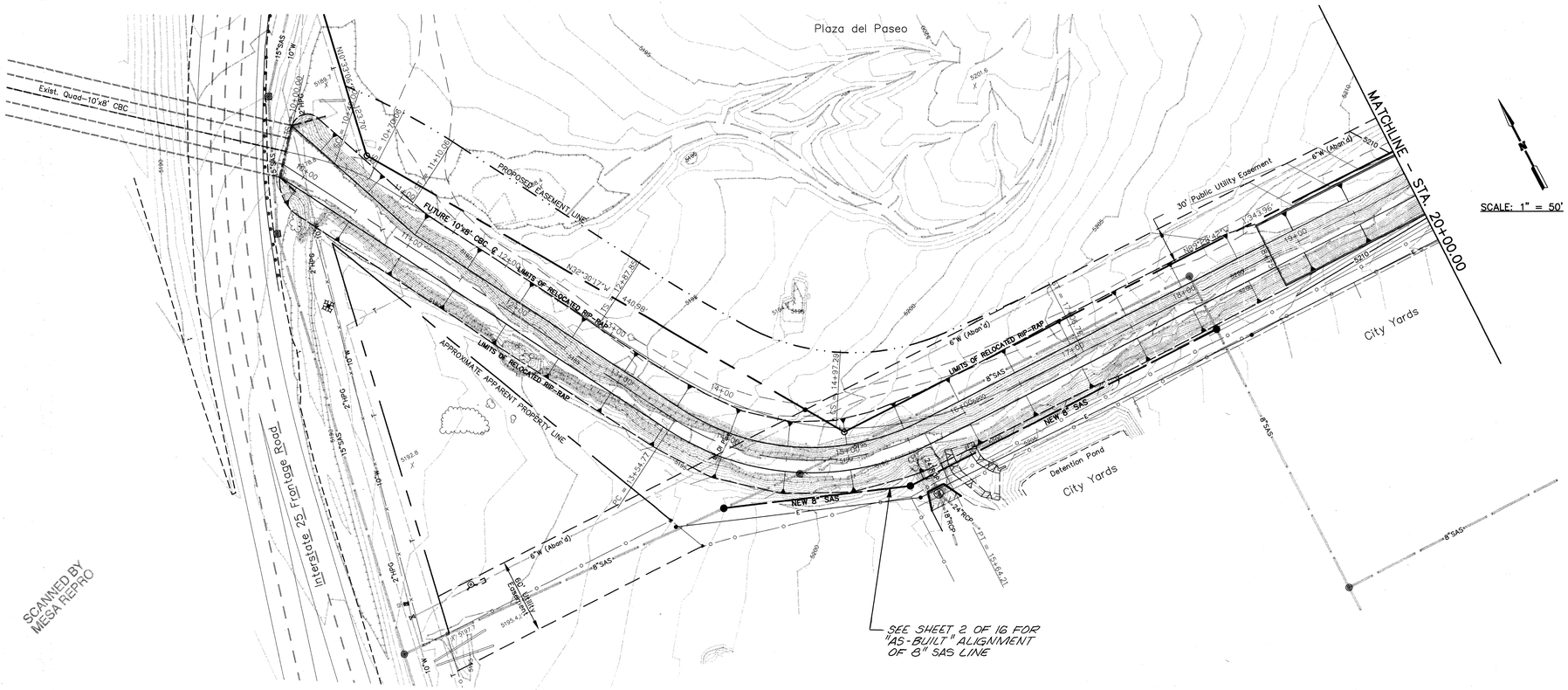
CHECKED BY DATE

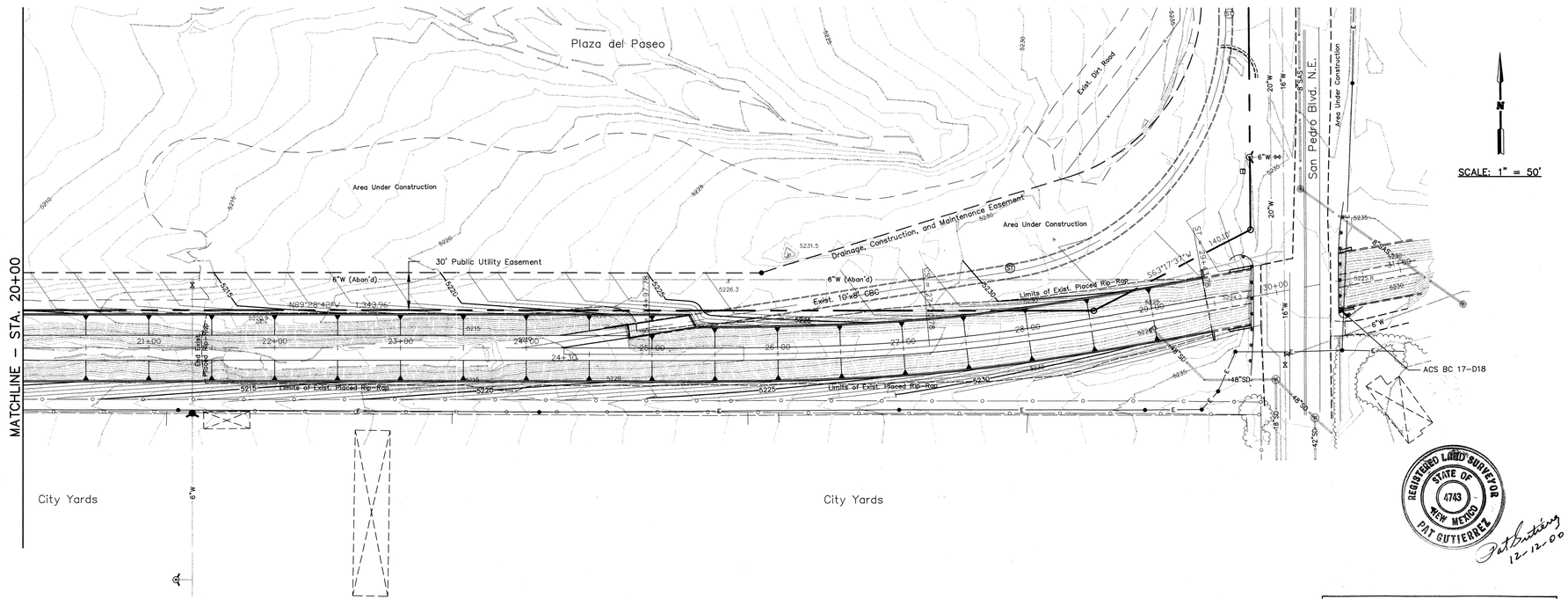
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA Standard				

PROJECT NO.	MAP NO.	SHEET	OF
6050.91	D-18	16	16





NOTE:
THIS DRAWING IS PROVIDED TO ASSIST IN A CHANGE ORDER NEGOTIATED BETWEEN THE CITY PWD AND THE DEVELOPER.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart DATE 12/00
STAKED BY BH DATE 12/00
INSPECTOR'S ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWING CORRECTED BY BH DATE 12/00

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 5258
NEW MEXICO
HANS N. COUCHMAN
12-12-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 1/22/99		DESIGNED BY HC-A
	DATE 1/22/99		DRAWN BY HC-A
	DATE X		CHECKED BY X

PROJECT LOCATION
LAT. 35° 10' 15" N
LONG. 106° 34' 50" W

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eal_engr@swcp.com

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
4743
PAT GUTIERREZ
12-12-00

RECORD DRAWING
DATE: 12-12-00

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

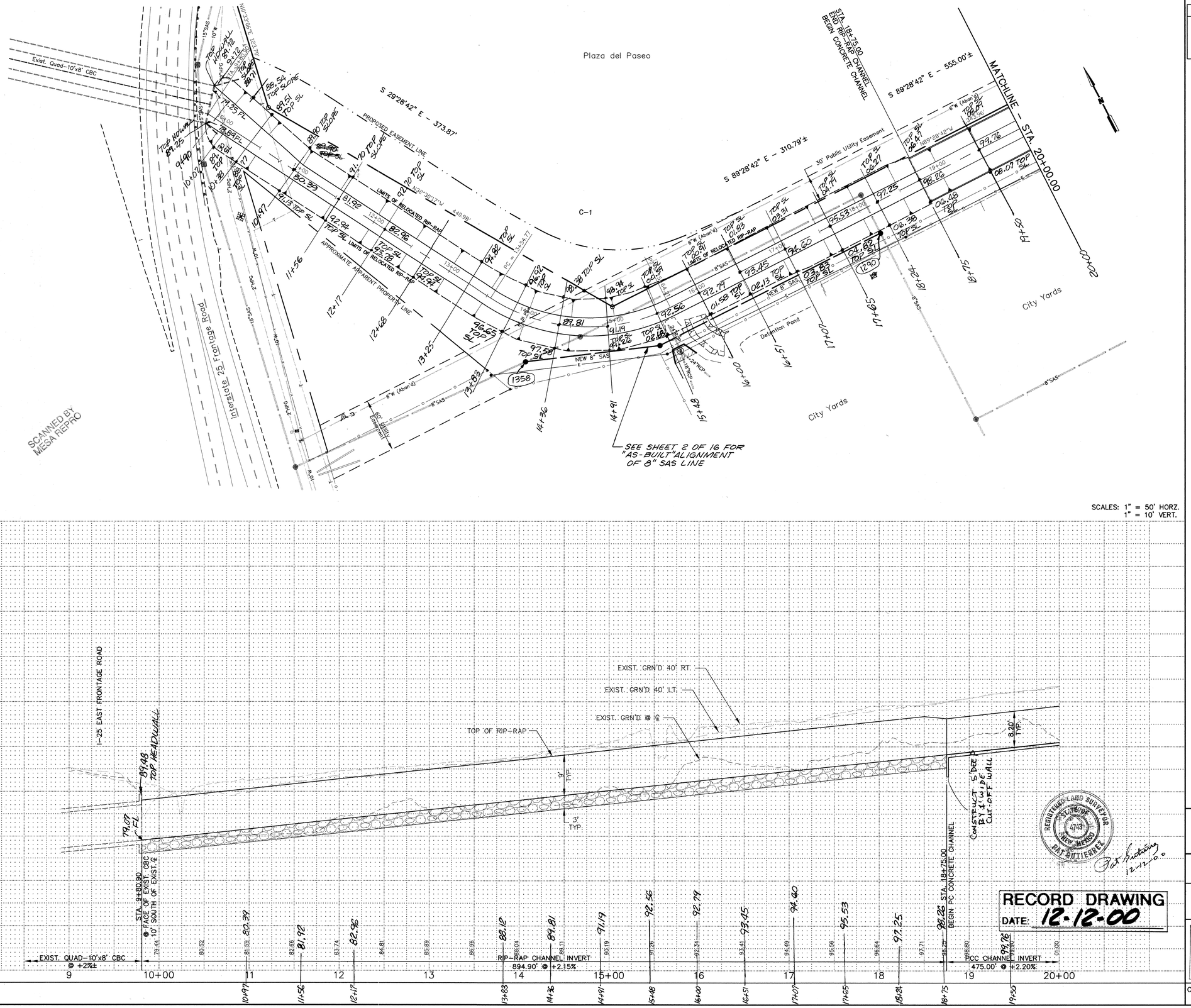
SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
PHASE 1 GRADING PLAN

DESIGN REVIEW COMMITTEE: APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL

LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.

CITY PROJECT No. 6050.91
ZONE MAP NO. D-18
SHEET 16A OF 16

DWG: GRADING1.DWG Path: D:\Data\Dbase0\Dbase1\
DWG: 6050-GRADING1 Plotted: 12/12/00



C-1			
Begin	North: 1518375.61	East:	400782.81
Radial Point. .	North: 1518474.02	East:	400956.92
End	North: 1518274.03	East:	400955.10
PI	North: 1518275.08	East:	400839.64
Tangent: 115.47 Chord: 200.00 Course: S 59-28-42 E			
Arc Length: 209.44	Radius: 200.00	Delta:	60-00-00

NOTE:
THIS DRAWING IS PROVIDED TO ASSIST IN A CHANGE ORDER NEGOTIATED BETWEEN THE CITY PWD AND THE DEVELOPER.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

BENCH MARKS

AC'S ALUM. CAP "9-D18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart
STAKED BY BH DATE 12/00
INSPECTOR'S AS-BUILTINGS BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWING CORRECTED BY BH DATE 12/00

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER HANS H. CHRISTENSEN No 5258 STATE OF NEW MEXICO
2-2-00

REMARKS

NO.	DATE	REVISIONS	BY
		DESIGN	
	DATE 2/1/99		DESIGNED BY HC-A
	DATE 2/1/99		DRAWN BY HC-A
	DATE X		CHECKED BY X

REGISTERED LAND SURVEYOR 9743 STATE OF NEW MEXICO PAT GUTIERREZ
12-12-00

RECORD DRAWING
DATE: 12-12-00

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eal_engr@swcp.com

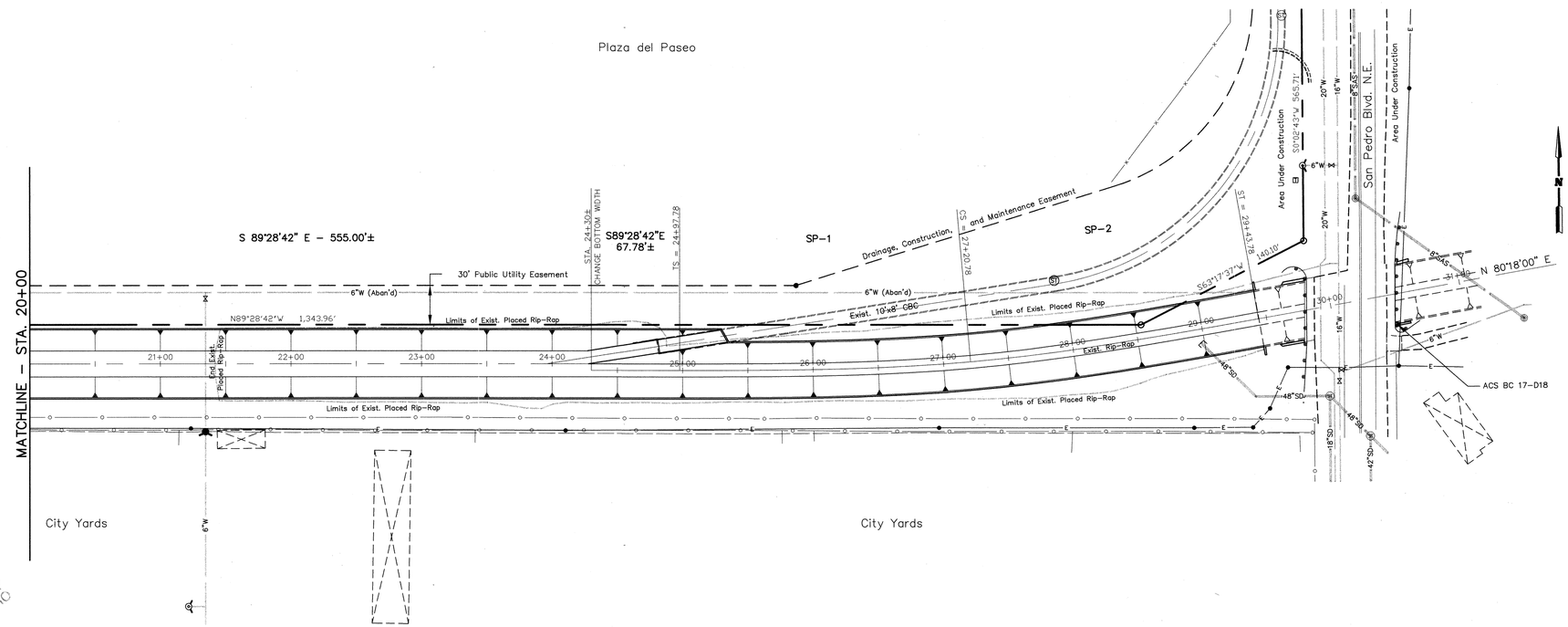
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
PHASE 1 CHANNEL IMPROVEMENTS
PLAN & PROFILE - STA. 10+00 TO STA. 20+00

DESIGN REVIEW COMMITTEE: APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
LAST DESIGN UPDATE: Mo./DAY/YR. | Mo./DAY/YR.

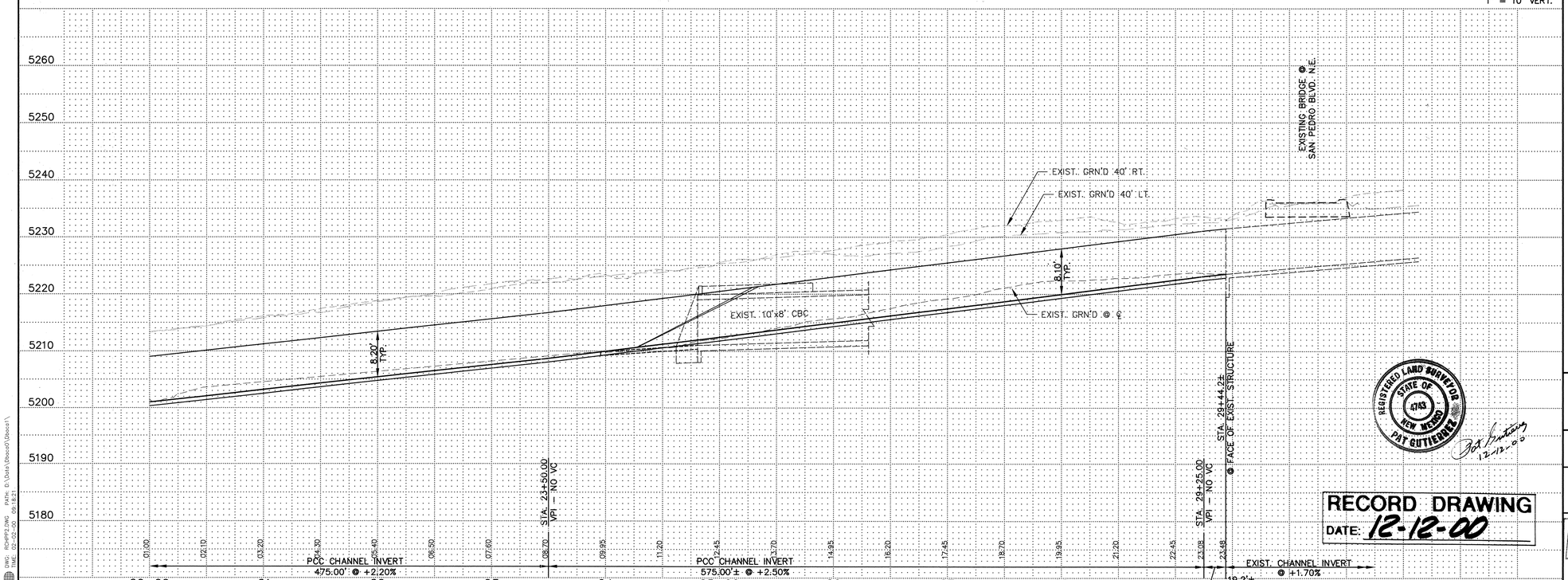
CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	16B	16

SCANNED BY MESA REPRO
DWG: RCHP11.DWG PATH: D:\Data\Ubase\Ubase1\ 09/12/00



SCANNED BY MESA REPRO

SCALES: 1" = 50' HORZ.
1" = 10' VERT.



RECORD DRAWING
DATE: 12-12-00

SP–1 (Clothoid)			
TS . . .	North: 1518260.53	East:	401888.58
SPI. . . .	North: 1518259.18	East:	402037.31
SC	North: 1518265.13	East:	402111.46
K : 111.47		P : 1.66	
A : 527.97		Tau : 0.09	
Xs: 222.82		Ys: 6.63	
Long Tan : 148.73		Course: S 89–28–42 E	
Short Tan: 74.39		Course: N 85–24–39 E	
Length: 223.00	Radius: 1250.00	Theta: 5–06–39	

SP–2 (Clothoid)			
TS . . .	North: 1518296.14	East:	402332.21
SPI. . .	North: 1518271.08	East:	402185.61
SC . . .	North: 1518265.13	East:	402111.46
K : 111.47		P : 1.66	
A : 527.97		Tau : 0.09	
Xs: 222.82		Ys: 6.63	
Long Tan : 148.73		Course: S 80–18–00 W	
Short Tan: 74.39		Course: S 85–24–39 W	
Length: 223.00	Radius: 1250.00	Theta: 5–06–39	

NOTE:
THIS DRAWING IS PROVIDED TO ASSIST IN A CHANGE ORDER NEGOTIATED BETWEEN THE CITY PWD AND THE DEVELOPER.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO – 7/98	

BENCH MARKS

ACS ALUM. CAP "9–D18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17–D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

AS BUILT INFORMATION

CONTRACTOR Moore & Causey
STAKED BY BH DATE 12/00
INSPECTOR'S AGREEMENTS BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWING CORRECTED BY BH DATE 12/00

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No 5258 HANS H. CONRADT
2-2-04

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
	DATE 2/1/99	DESIGNED BY HC–A
	DATE 2/1/99	DRAWN BY HC–A
	DATE X	CHECKED BY X

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898–8021 FAX (505) 898–8501
E–Mail: eal_engr@swcp.com

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO 4743 PAT GUTIERREZ
12-12-00

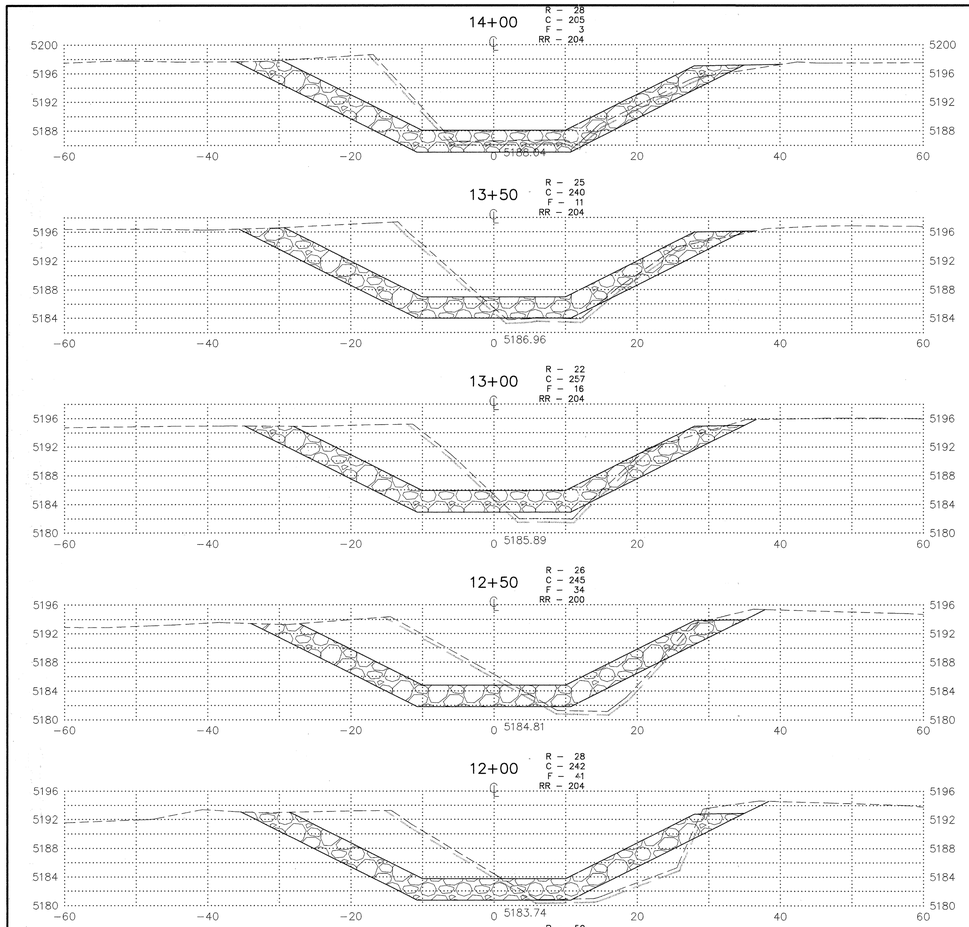
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

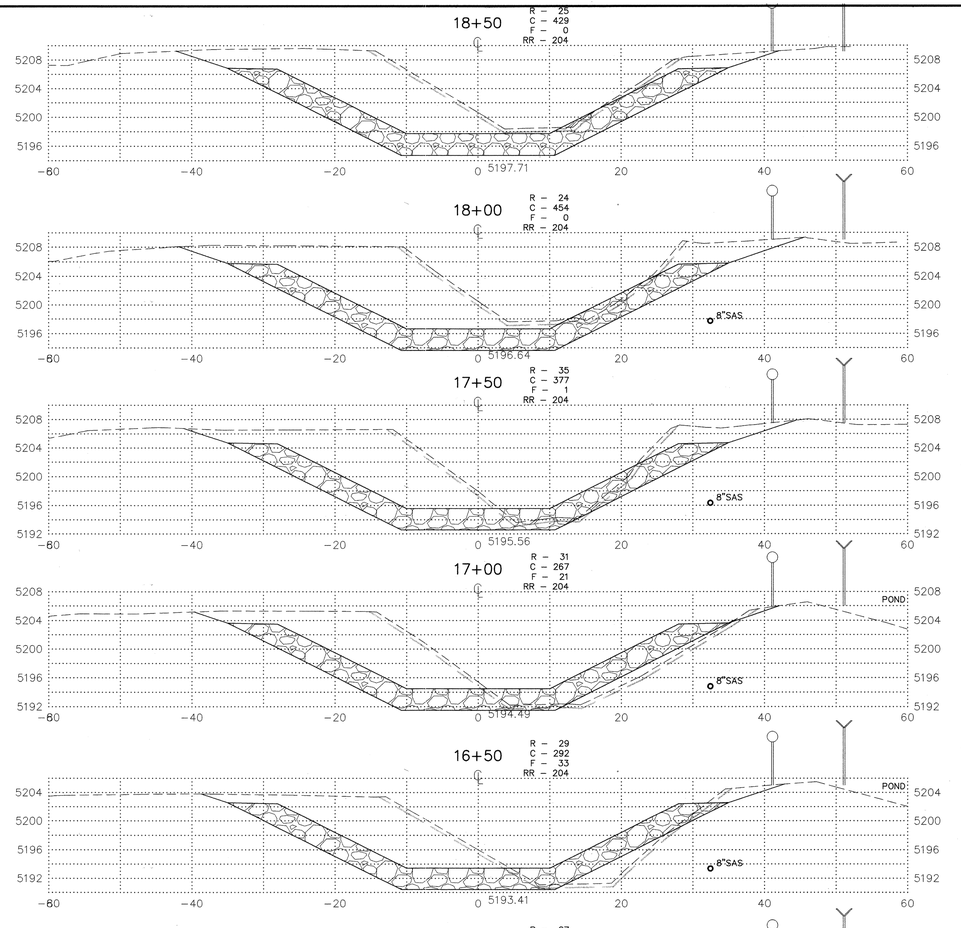
SOUTH ARROYO DE DOMINGO BACA
PHASE 1 CHANNEL IMPROVEMENTS
PLAN & PROFILE – STA. 20+00 TO STA. 29+44.16

DESIGN REVIEW COMMITTEE: APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
LAST DESIGN UPDATE: Mo./DAY/YR. Mo./DAY/YR.

CITY PROJECT No. 6050.91
ZONE MAP NO. D–18
SHEET OF 16C 16

DWG: RCHPP2.DWG PATH: D:\Data\Dbase\Dbase1\
DATE: 05-04-99





SCANNED BY
MESA REPRO

DWG: ROHSECT1.DWG PATH: D:\Data\Dbase0\Dbase1\
TIME: 04-04-00 09:49:52

NOTE:
THIS DRAWING IS PROVIDED TO ASSIST IN A CHANGE ORDER NEGOTIATED BETWEEN THE CITY PWD AND THE DEVELOPER.

AS BUILT INFORMATION
CONTRACTOR WORK STAKED BY: Moore & Couvert DATE 12/00
INSPECTOR'S FIELD ACCEPTANCE BY: BH DATE 12/00
FIELD CHECK VERIFICATION BY: BH DATE 12/00
FIELD CHANGES CORRECTED BY: BH DATE 12/00
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)
ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE
BOHANNAN-HUSTON, INC.
TOPOGRAPHIC MAP OF
PLAZA DEL PASEO – 7/98
ADD'L POINTS AS REQUIRED
BY SURV-TEK – 12/98

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
HANS H. COUVERT
NEW MEXICO
5251
12-2-00

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
4743
PAT GUTIERREZ
12-12-00

RECORD DRAWING
DATE: 12-12-00

REVISIONS
NO. | DATE | REMARKS | BY
DESIGN
DESIGNED BY HC-A DATE 1/27/99
DRAWN BY HC-A DATE 1/27/99
CHECKED BY X DATE X

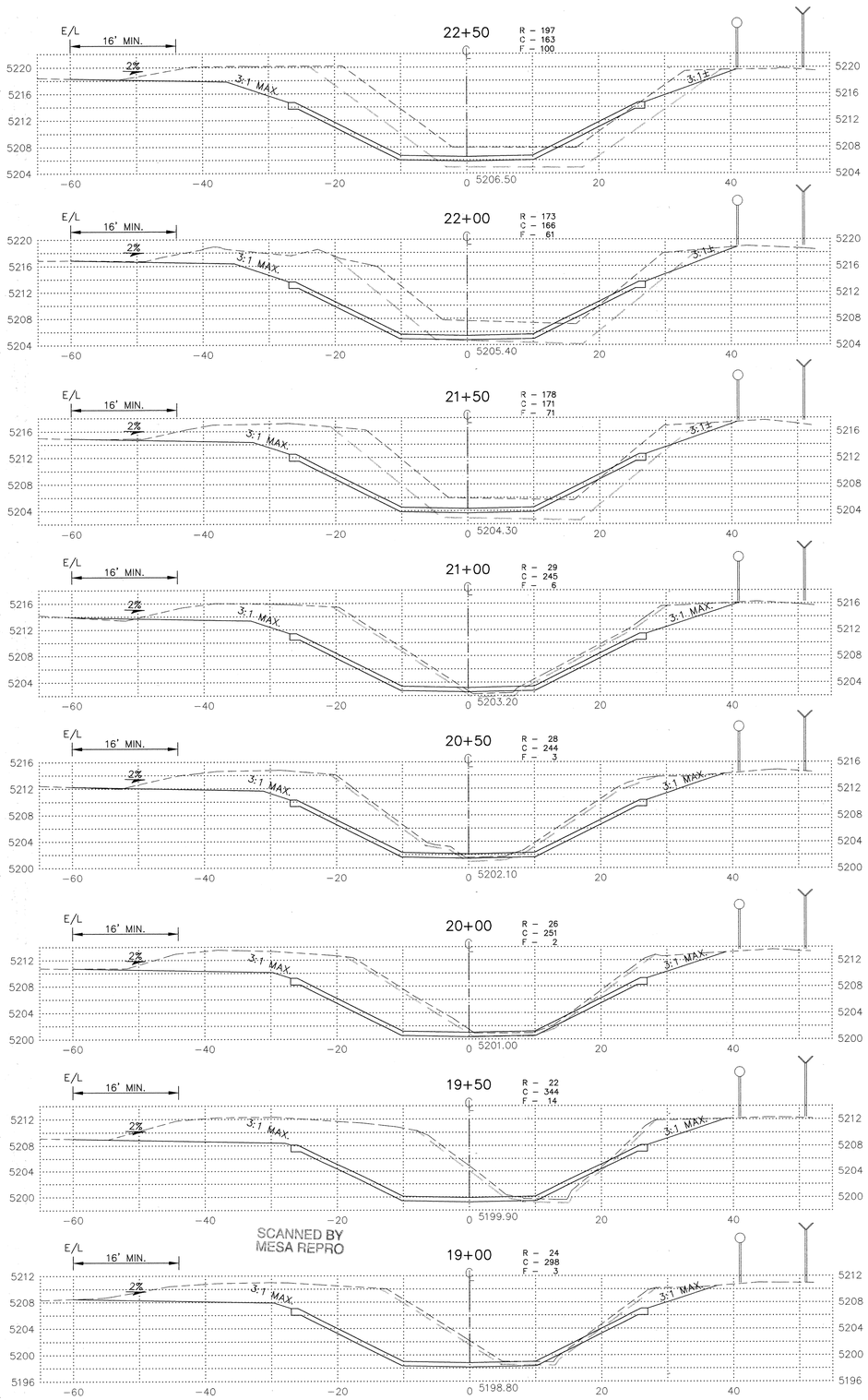
Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
PHASE 1 CROSS-SECTIONS

DESIGN REVIEW COMMITTEE: APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
LAST DESIGN UPDATE: Mo./DAY/YR. | Mo./DAY/YR.

CITY PROJECT No. 6050.91
ZONE MAP NO. D-18
SHEET 16D OF 16



SCANNED BY
MESA REPRO

NOTE:
THIS DRAWING IS PROVIDED TO ASSIST IN A CHANGE ORDER NEGOTIATED BETWEEN THE CITY PWD AND THE DEVELOPER.

AS BUILT INFORMATION

CONTRACTOR Alterra & Covert DATE 12/00
WORK STAKED BY BH DATE 12/00
INSPECTOR'S ACCEPTANCE BY BH DATE 12/00
FIELD REVISION BY BH DATE 12/00
DRAWINGS CORRECTED BY BH DATE 12/00

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	

ADD'L POINTS AS REQUIRED
BY SURV-TEK - 12/98

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
5259
NEW MEXICO
HANS H. COUCHMAN
12-2-00

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
4763
PAT GUTIERREZ
12-2-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY HC-A	DATE 2/5/99
		DRAWN BY HC-A	DATE 2/5/99
		CHECKED BY X	DATE X

RECORD DRAWING
DATE: 12-12-00

Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501
E-Mail: eai_engr@swcp.com

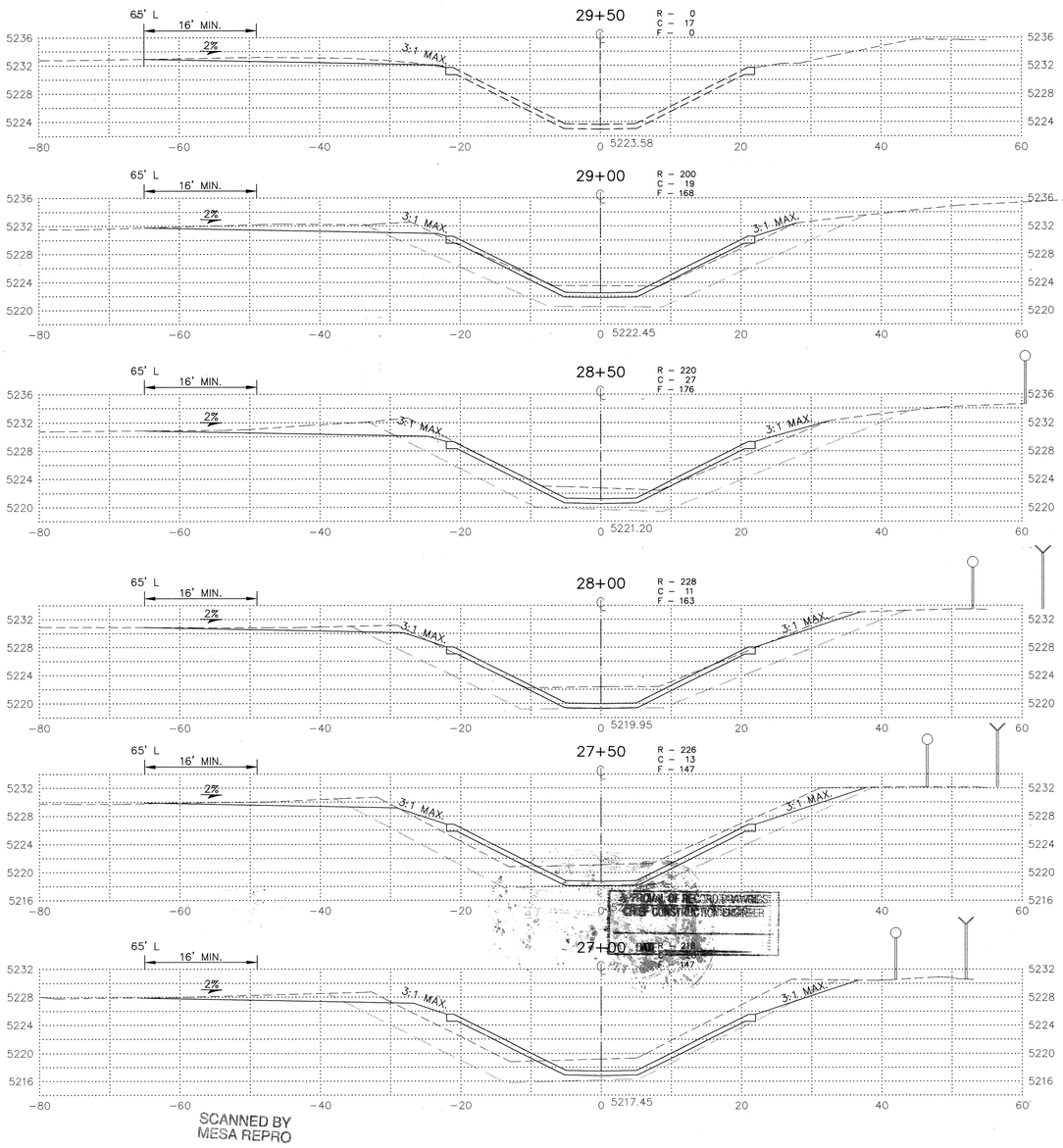
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SOUTH ARROYO DE DOMINGO BACA
(I-25 TO SAN PEDRO BLVD. N.E.)
PHASE 1 CROSS-SECTIONS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE				

CITY PROJECT No.	ZONE MAP NO.	SHEET	OF
6050.91	D-18	16E	16

DWG: RCHSECT2.DWG PATH: D:\Data\Dbase1\
DATE: 02-25-99 11:37:35



SCANNED BY
MESA REPRO

RECORD DRAWING
DATE: 12-12-00

NOTE:
THIS DRAWING IS PROVIDED TO ASSIST IN A CHANGE ORDER NEGOTIATED BETWEEN THE CITY PWD AND THE DEVELOPER.

AS BUILT INFORMATION

CONTRACTOR Moore & Cowart DATE 4/00
WORK STAKED BY BH DATE 4/00
INSPECTOR'S ACCEPTANCE BY BH DATE 12/00
FIELD VERIFICATION BY BH DATE 12/00
DRAWINGS CORRECTED BY BH DATE 12/00

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

ACS ALUM. CAP "9-C18 1985"
X= 402,255.61 Y= 1,521,435.09 (NAD 1927)
ELEV. 5229.79 (SLD 1929)

ACS BC 17-D18
X= 402,438.55 Y= 1,518,290.84 (NAD 1927)
ELEV. 5236.58 (SLD 1929)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
	BOHANNAN-HUSTON, INC.	
	TOPOGRAPHIC MAP OF	
	PLAZA DEL PASEO - 7/98	
	ADD'L POINTS AS REQUIRED	
	BY SURV-TEK - 12/98	

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER 5265 STATE OF NEW MEXICO JAMES H. COUCHENOUR

2-2-00

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	DESIGNED BY HC-A DATE 2/5/99
			DRAWN BY HC-A DATE 2/5/99
			CHECKED BY X DATE X

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO 4743 PAT GUTIERREZ

12-12-00

Easterling & Associates, Inc.
CONSULTING ENGINEERS
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Rio Rancho, New Mexico 87124
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DESIGN REVIEW COMMITTEE: APPROVED FEB 28 2000 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE: Mo./DAY/YR. Mo./DAY/YR.

CITY PROJECT No.	ZONE MAP NO.	SHEET OF
6050.91	D-18	16F 16

DWG: ROADSECTS.DWG PATH: D:\Data\Dbase1\
DATE: 06-06-99 11:56:56